## SITE INFORMATION

	Report Type: Closure Report 1RP-1518											
General Site Info	rmation:											
Site:		Wyatt A Federa	al									
Company:		ConocoPhillips	ConocoPhillips									
Section, Townsh	ip and Range	Unit Letter E	Sec. 33	T 17 S	R 33 E							
Lease Number:		Associated AP	I No. N/A									
County:		Lea			-							
GPS:			32.794661°			-103.674247°						
Surface Owner:		Private										
Mineral Owner:		BLM Depart from Moliom	or (NN11/NN192) boo	d couth on NN	1126A for 0.6 m	alles Turn left (seat) ante Massalare						
Directions:		Rd for 5.8 miles. Tu	rn right (south) onto l	Dog Lake Rd f	or 89 feet. Turr	n left (southeast) for 0.5 miles. Turn						
		left (northeast) for 0	.2 miles. Turn right (s	south) onto pro	oduction road fo	or 400 feet.						
		_										
Release Data:												
Date Released:		7/29/2007										
Type Release:		Oil										
Source of Contam	nination:	300 bbl steel tar	nk									
Fluid Released:		21 bbls										
Fluids Recovered		4 bbls										
Official Commun	ication:											
Name:	Marvin Soriwei				Christian M.	Llull						
Company:	Conoco Phillips - F	RMR			Tetra Tech							
Address:	935 N. Eldridge Pk	wy.			8911 North	Capital of Texas Highway						
					Building 2, S	Suite 2310						
City:	Houston, Texas 77	079			Austin, Texa	as						
Phone number:	(832) 486-2730				(512) 338-2861							
Fax:					, <i>,</i>							
Email:	marvin.soriwei@	conocophillips.cor	n		christian.llu	Ill@tetratech.com						
					1							

Site Characterization	
Shallowest Depth to Groundwater:	165' below surface
Impact to groundwater or surface water:	No
Extents within 300 feet of a watercourse:	No
Extents within 200 feet of lakebed, sinkhole, or playa la	No
Extents within 300 feet of an occupied structure:	No
Extents within 500 horizontal feet of a private water well	No
Extents within 1000 feet of any water well or spring:	No
Extents within incorporated municipal well field:	No
Extents within 300 feet of a wetland:	No
Extents overlying a subsurface mine:	No
Karst Potential:	Low
Extents within a 100-year floodplain:	No
Impact to areas not on a production site:	No

Recommended Remedial Action Levels (RRALs)											
Benzene	Total BTEX	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	Chlorides							
10 mg/kg	50 mg/kg	N/A	2500 mg/kg	20,000 mg/kg							



February 12, 2021

District Supervisor Oil Conservation Division, District 1 1625 North French Drive Hobbs, New Mexico 88240

Re: Closure Request ConocoPhillips 1RP-1518 Wyatt A Federal Battery Release PLSS Unit Letter E, Section 33, Township 17 South, and Range 33 East Lea County, New Mexico 1RP-1518 Incident ID nPAC0722530906

Sir or Madam:

On behalf of ConocoPhillips (COP), Tetra Tech, Inc. (Tetra Tech) submits the following Closure Report for review. The COP Wyatt A Federal Battery Release area (Site) is located approximately 6.7 miles southeast of Maljamar in Lea County, New Mexico. The Site coordinates are 32.794661°, -103.674247°, located in the Public Land Survey System (PLSS) Unit Letter E, Section 33, Township 17 South, and Range 33 East. The Site location is shown on Figures 1 and 2.

### BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), on July 29, 2007 a release of 21 barrels (bbls) of oil occurred from a hole at the bottom of a 300-bbl steel tank at the Wyatt A Federal Battery. The affected area was reported as 10-feet (ft) by 1,100-ft of prepared location pad and roadway. Figure 3 depicts the footprint of the initial release. During initial response activities, a vacuum truck recovered approximately 4 bbls of the released fluids. Notice was given to the New Mexico Oil Conservation Division (NMOCD) on July 29, 2007. The NMOCD approved the initial C-141 on August 3, 2007 and assigned the release the Remediation Permit (RP) number 1RP-1518. Incident ID nPAC0722530906 was assigned to this release. The 1RP-1518 release is included in an Agreed Compliance Order-Releases (ACO-R) between COP and the NMOCD signed on May 7 and 9, 2019, respectively.

## SITE CHARACTERIZATION

A site characterization was performed and no watercourses, lakebeds, playa lakes, sinkholes, residences, schools, hospitals, institutions, churches, springs, public or private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. The Site is located in a low karst potential area.

According to the New Mexico Office of the State Engineer (NMOSE) reporting system, there are no water wells within 800 meters (approximately ½ mile) of the Site. The search radius was expanded and two (2) water wells were located within 1,600 meters (approximately 1 mile) of the release location. The average depth to groundwater is 165 ft below ground surface (bgs). The site characterization data is shown in Appendix B.

## **REGULATORY FRAMEWORK**

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site are as follows:

Constituent	Remediation RRAL
Chloride	20,000 mg/kg
TPH	2,500 mg/kg
BTEX	50 mg/kg

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule* (19.15.29 NMAC) (September 6, 2019), the following reclamation RRALs for surface soils (0-4 ft bgs) outside of active oil and gas operations are as follows:

Constituent	Reclamation RRAL
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg

## SITE ASSESSMENT ACTIVITIES

Tetra Tech was contacted to assess the release site footprint on behalf of COP in 2007. A Work Plan to perform a subsurface investigation at the Site (dated August 10, 2007) was prepared by Tetra Tech on behalf of COP and submitted to the NMOCD (Appendix C). This Work Plan is found in the NMOCD imaging database for the 1RP-1518 release. Tetra Tech commenced site assessment activities on September 20, 2007. In accordance with activities proposed in the Work Plan, Tetra Tech excavated six (6) exploratory trenches (T-1 through T-6) within the release extent to achieve vertical and horizontal delineation of the release. The approximate release footprint is shown in Figure 3.

During the assessment activities, three (3) 15-ft-long trenches were excavated in the release extent across the impacted road area (T-1, T-2, and T-3). Two (2) trenches were excavated on the back side of the battery (T-4 and T-5), and one (1) trench was excavated adjacent to the leaking tank location (T-6). Soil samples were collected every 5 feet from three (3) locations (clean left, affected area, clean right) in each of the three trenches excavated across the road. Soil samples collected from the trenches were field tested using salinity and electrical conductivity (EC) field screening techniques to achieve vertical and horizontal delineation of the release.

Six (6) soil samples from each road trench (T-1, T-2, T-3) and two (2) soil samples from each trench in and around the battery (T-4, T-5, T-6) were collected for laboratory analysis. The sampling interval was based on EC field screening, and on the judgment of the field personnel. The soil sample with the highest EC measurement and the sample from the excavation total depth were retained for laboratory analysis.

A total of twenty-four (24) samples were collected from the six (6) trenches and submitted to TestAmerica Laboratories, Inc in Houston Texas, where they were analyzed for chloride (USEPA Method 300.0A), electrical conductivity (Standard Method 2510B SW-846 Method 9050A), diesel and gasoline range hydrocarbons (TPH<sub>DRO</sub> and TPH<sub>GRO</sub>, Method 8015) and BTEX (Method 8260). In addition, one (1) basal sample for the trench inside the bermed catch basin was analyzed for BTEX and chloride synthetic precipitation leaching potential (SPLP<sub>BTEX</sub> and SPLP<sub>CI</sub>; USEPA Method 1312/8015 & 300.0A, respectively). Site assessment activities and results were documented by Tetra Tech in a Findings Report dated

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ConocoPhillips

November 28, 2007 (Appendix E). Copies of laboratory analysis and chain-of-custody documentation are included in Appendix A of the Findings Report. The results of the 2007 assessment sampling events are summarized in Table 1. The exploratory trench locations are shown in Figure 4. Photographic documentation of the release footprint and investigation activities is presented in Appendix D.

Email correspondence records (Appendix F) indicate that the November 28, 2007 Findings Report was submitted to the NMOCD and the Bureau of Land Management (BLM) for approval. The Findings Report presented the data collected and concluded with recommendations for remedial actions at the Wyatt A Federal Battery Release area. The analytical results associated with the assessment were above the RRAL for TPH (100 mg/kg). The remedial action proposed within the Findings Report consisted of excavation and removal of the impacted soils to depths of 3 to 4 ft bgs. Post-excavation, a liner was proposed for the remaining impacted soils in the T-3/battery area. The BLM and the NMOCD approved the proposed remedial work plan in email correspondence with Tetra Tech, dated December 3 and December 4, 2007, respectively (Appendix F).

## **REMEDIAL ACTIVITIES**

In accordance with the proposed remedial work plan in the approved Findings Report, Tetra Tech personnel began remedial activities at the site in April 2008 on behalf of COP. From April to May 2008, Tetra Tech personnel were onsite to supervise the remediation activities at the Site, including excavation, disposal and confirmation sampling. The remedial activities and confirmation sampling results were documented in a Request for Closure report, dated September 5, 2008 (Appendix G). It is unclear whether this Closure Request was officially submitted to the NMOCD and the BLM.

As documented in the Request for Closure Report, the release extent was subdivided into 19 individual sample cells (C-1 through C-19). Soils were excavated to depths of approximately 3 to 4 ft bgs near the battery (sample cells C-1, C-2, C-3), and soils along the road (sample cells C-4 through C-19) were excavated to depths of 5 to 10 ft bgs. Random screening occurred every 50 ft using a PID, PetroFlag-TPH, and chloride field screening to determine that remediation levels have been achieved (PID reading <10 ppm, chloride titration <500 ppm). Confirmation sampling cell locations are shown in Figure 5. Excavated material was hauled to a NMOCD-approved facility for disposal. The excavated areas were backfilled with clean soil.

A total of fifty-five (55) samples were collected from the nineteen (19) sample cells, and submitted to SPL, Inc. in Houston Texas, where they were analyzed for chloride (USEPA Method 300.0A), electrical conductivity (Standard Method 2510B SW-846 Method 9050A), diesel and gasoline range hydrocarbons (TPH<sub>DRO</sub> and TPH<sub>GRO</sub>, Method 8015) and BTEX (Method 8260). Copies of laboratory analysis and chain-of-custody documentation are included in the Appendix to the Request for Closure report (Appendix G). The results of the 2008 confirmation sampling events are summarized in Table 2. Through review of available data, a final signed C-141 was located, however, there was no additional correspondence between NMOCD and Tetra Tech indicating that the Final C-141 was submitted and/or approved by NMOCD.

### LINER INSTALLATION

Analytical results associated with confirmation cell locations C-1 through C-3 were elevated for chlorides. To mitigate the effects of this residual contamination, a 1-ft deep anchor trench was constructed around the inside perimeter of the excavation and a 40-mil medium density polyethylene geo-membrane was installed. The membrane was cut to fit into the perimeter trench and native soil was backfilled around the perimeter to hold the geo-membrane in-place. Native soil was backfilled over the membrane to meet surrounding surface grade. Four (4) carsonite markers were set at the corners of the remediation area notifying interested parties that a subsurface structure was in-place. The inscription on each marker reads "CAUTION, SUBSURFACE STRUCTURE, Call Before Digging, MCA Unit 575-393-0130." Photos of remedial activities are shown in Appendix D.

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## **RECLAMATION AND REVEGETATION**

From review of recent aerial photography (2017), it appears that the formerly impacted off-pad surface areas were restored to the conditions that existed prior to the release in accordance with 19.15.29.13 NMAC. The existing caliche pad and lease road areas remain unvegetated by design, as they are needed for production operations.

## CONCLUSION

COP respectfully requests closure of this release based on the remediation activities performed and confirmation sampling results. The final C-141 form is enclosed in Appendix A. If you have any questions concerning the soil assessment or the remediation activities for the Site, please call me at (512) 338-2861 or Greg at (432) 682-4559.

Sincerely, Tetra Tech, Inc.

Christian M. Llull, P.G. Project Manager

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Greg W. Pope, P.G. Program Manager

cc: Mr. Marvin Soriwei, RMR – ConocoPhillips Mr. Charles Beauvais, GPBU – ConocoPhillips Closure Letter Report February 12, 2021

ConocoPhillips

## LIST OF ATTACHMENTS

## Figures:

Figure 1 – Site Map

Figure 2 – Topographic Map

Figure 3 – Approximate Release Extent

Figure 4 – Site Assessment

Figure 5 – Approximate Remediation Extent and Confirmation Sampling Cell Locations

## Tables:

Table 1 – Summary of Analytical Results – Initial Soil Assessment

Table 2 - Summary of Analytical Results - Confirmation Sampling

## Appendices:

Appendix A – C-141 Forms

Appendix B – Site Characterization Data

Appendix C – Work Plan (Tetra Tech, August 10, 2007)

Appendix D – Photographic Documentation

Appendix E – Findings Report (Tetra Tech, November 26, 2007)

Appendix F – Email Correspondence

Appendix G – Closure Report (Tetra Tech, September 8, 2008)

# FIGURES



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# TABLES

#### TABLE 1 SUMMARY OF ANALYTICAL RESULTS SOIL ASSESSMENT - 1RP-1518 CONOCOPHILLIPS WYATT A FEDERAL LEA COUNTY, NM

		Formula Donth	EC Field Screening									BTEX <sup>4</sup>									SPLP BTEX <sup>5</sup>					TPH <sup>6</sup>					
Sample ID	Sample Date	Interval	Results	Specific Conduct	ivity <sup>1</sup>	Chloride <sup>2</sup>	SPLP Chloride <sup>3</sup>	Benzene		Toluene		Ethylbenzen	e	Total Xylenes		Total BTEX	Benzene	Benzene Toluene				e	Total Xylenes		Total SPLP BTEX	GRO		DRO		Total TPH (GRO+DRO)	
		ft. bgs	μS/cm	µmhos/cm	Q r	mg/kg (	t mg/L Q	mg/kg	Q	mg/kg (	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	mg/kg	Q	mg/kg	Q	mg/kg	
T 14	0/20/2002	0-0.5	185	340		18.4	-	< 0.005		< 0.005		0.00697		< 0.015		0.00697	-						-		-	1.73		12		13.73	
1-14	5/20/2007	5	432	639		134	6.1	< 0.005		< 0.005		< 0.005		< 0.015		-	< 0.005		< 0.005		< 0.005		< 0.015		-	< 1.0		24		24	
T-18	9/20/2007	0-0.5	225	254		18.2	-	< 0.020		3.57		14.4		24		42.0	-		-		-				-	927		19000		19927	
115	5/20/2007	5	428	721		149	5.79	< 0.005		< 0.005		< 0.005		< 0.015		-	< 0.005		< 0.005		< 0.005		< 0.015		-	< 1.0		< 8.3		-	
T-1C	9/20/2007	0-0.5	106	140		8.33	-	< 0.005		< 0.005		< 0.005		< 0.015		-	-		-		-		-		-	1.13		< 8.3		1.13	
110	5/20/2007	5	133	319		27.5	2.03	< 0.005		< 0.005		< 0.005		< 0.015		-	< 0.005		< 0.005		< 0.005		< 0.015		-	< 1.0		110		110	
7.34	0 /20 /2002	0-0.5	952	154		7.73	-	< 0.005		< 0.005		< 0.005		< 0.015		-		Π					-		-	< 1.0		19		19	
1-2A	9/20/2007	5	560	1450		275	11.3	< 0.005		< 0.005		< 0.005		< 0.015		-	< 0.005		< 0.005		< 0.005		< 0.015		-	< 1.0		< 8.3		-	
7.30	0 /20 /2002	0-0.5	111	186		10.2	-	< 0.005		0.00717		0.0099		0.0199		0.0370	-						-		-	40.1		4000		4040	
1-28	9/20/2007	5	743	1460		221	9.66	< 0.005		< 0.005		< 0.005		< 0.015		-	< 0.005		< 0.005		< 0.005		< 0.015		-	< 1.0		13		13	
7.20	0/20/2007	0-0.5	61	116		7.54	-	< 0.005		< 0.005		< 0.005		< 0.015		-	-		-		-		-		-	< 1.0		260		260	
1-20	5/20/2007	5	302	762		67.9	3.28	< 0.005		< 0.005		< 0.005		< 0.015		-	< 0.005		< 0.005		< 0.005		< 0.015		-	< 1.0		< 8.3		-	
	- ( (	0-0.5	239	492		29.2	-	< 0.005		< 0.005		< 0.005		< 0.015		-	-	П					-		-	< 1.0		1400		1400	
1-3A	9/20/2007	5	3817	8980		3750	156	< 0.005		< 0.005		< 0.005		< 0.015		-	< 0.005		< 0.005		< 0.005		< 0.015		-	< 1.0		600		600	
7.30	0 /20 /2002	10	189	1030		152	5.31	< 0.020		2.62		14.1		26.4		43.1	< 0.005		0.0111		0.0327		0.0651		0.109	714		15000		15714	
1-38	9/20/2007	14	1925	4780		1570	75.8	< 0.005		< 0.005		< 0.005		< 0.015		-	< 0.005		< 0.005		< 0.005		< 0.015		-	< 1.0		31		31	
7.26	0 /20 /2002	0-0.5	78	194		9.30	-	< 0.005		< 0.005		< 0.005		< 0.015		-	-						-		-	< 1.0		12		12	
1-3U	9/20/2007	5	1127	4050		1510	59.5	< 0.005		< 0.005		< 0.005		< 0.015		-	< 0.005		< 0.005		< 0.005		< 0.015		-	< 1.0		< 8.3		-	
		0-5	-	2890		285	-	< 0.020		11.3		49.9		89.4	T	151		ПТ			-		-	1	-	1800		27000		28800	
T-4	9/20/2007	14	1235	4390		1310	56.3	< 0.005		< 0.005		< 0.005		0.0488		0.0488	< 0.005		< 0.005		< 0.005		0.0256		0.0256	757		6500		7257	
		0-5	161	462		58.8	1.1	< 0.005		< 0.005	T	< 0.005		< 0.015	T	-	< 0.005		< 0.005		< 0.005		< 0.015	Ť		3 53		540		544	
T-5	9/20/2007	5	1202	3250		1110	47.4	< 0.005		< 0.005		< 0.005		< 0.015		-	< 0.005	1	< 0.005		< 0.005		< 0.015			< 1.0		< 8.3		-	
		0.5		3300		736	1	0.481		0.00		12		26.2	-	E9 6								Ť		1130	1	11000		12120	
T-6	9/20/2007	10	-	2300	+	401	21.0	0.481		0.00	-	13		30.2	_	0.00	-	+						_	-	1120		11000	_	12120	
		10	-	1090	1 1		4.4.5	- 0.003	1	- 0.003		- 0.003	1	- 0.013			- 0.003	1	- 0.003	1	- 0.003	1	- 0.013			~ 1.0	1				

NOTES:

Feet ft.

bgs Below ground surface

μS/cm MicroSiemens per centimeter

µmhos/cm MicroOhms per centimeter

mg/kg Milligrams per kilogram

mg/L Milligrams per liter EC Electrical conductivity

SPLP Synthetic precipitation leaching procedure 1 EPA Method 120.1

2 SW-846 Method 9056 3 EPA Method 300.0 REV2

4, 5 SW-846 Method 8260B

6 SW-846 Method 8015B

Total petroleum hydrocarbons

TPH Total petroleum hydrocar GRO Gasoline range organics

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#### TABLE 2 SUMMARY OF ANALYTICAL RESULTS SOIL REMEDIATION - 1RP-1518 CONOCOPHILLIPS WYATT A FEDERAL LEA COUNTY, NM

								BTEX <sup>3</sup>				SPLP BTEX <sup>4</sup>					TPH <sup>5</sup>				
			Chloride <sup>1</sup>	SPLP Chloride <sup>2</sup>															GRO	DRO	Total TPH
Sample ID	Sample Date	Sample Location			Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total Xylenes	Total BTEX	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total Xylenes	SPLP Total BTEX	C C	Curt Cur	(GRO+DRO)
		-																-	-6 -10	-10 -28	
			mg/kg Q	mg/kg Q	mg/kg	Q mg/kg	Q mg/kg	Q mg/kg	Q mg/kg	Q mg/kg	Q mg/kg	mg/kg	Q mg/kg Q	mg/kg Q	mg/kg C	t mg/kg	Q mg/kg Q	i mg/kg	mg/kg	Q mg/kg Q	mg/kg
C1	4/22/2008	SW-N	< 5.00		< 0.0010	< 0.0020	< 0.0010	< 0.0020	< 0.0010	-	-	-	-	-	-	-	-	-	< 15.5	< 15.5	-
0	4/20/2008	SW/.N	92.6		< 0.0056	< 0.0056	< 0.0056	< 0.0056	< 0.0056	< 0.0056									< 0.11	<b>656</b>	
	473072000	5111	52.0		10.0000	10.0000	4 0.0030	0.0050	10.0030	10.0000								-	-0.11	13.5	
	4/30/2008	SW-N	145		< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053		-		-		-	-	-	< 0.1	< 5.2	-
C3	4/24/2008	SW-S-3	223		< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053					-	-	-		< 0.11	< 5.3	-
	4/22/2009	BOT - 25'	445		< 0.0010	< 0.0020	< 0.0010	< 0.0020	< 0.0010										< 15.9	< 15.9	
	4/22/2000	501-15			- 0.0010	10.0010	4 0.0010	-0.0020	10.0010	-	-	-			-	-		-	15.0	13.0	
	4/28/2008	SW-N	159		< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	-	-	-	-	-	-	-	-	< 0.11	15	15
C4	4/28/2008	SW-S	29.7		< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051					-	-	-		< 0.1	< 5.1	-
	4/23/2008	BOT - 14'	82	2.62	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050		< 0.11	< 5.4	-
											-							-			
	4/28/2008	SW-N	11.4	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	-	-	-	-	-	-	-	< 0.1	< 5.0	-
C5	4/28/2008	SW-S	199	-	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	-	-			-		-	-	< 0.11	< 5.3	-
	4/30/2008	BOT - 14'	121	7.18	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050		< 0.1	5.9	5.9
	4/28/2008	CW/ N	196		< 0.00E2	<0.0053	< 0.00F2	<0.0053	+0.0053	< 0.00E2		Í		1	i i	1	1		-01	6.6	6.5
	4/28/2008	31011	190		0.0033	0.0033	< 0.0035	0.0033	0.0033	0.0033									<0.1	6.3	0.3
C6	4/28/2008	SW-S	229	-	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	-	-	-	-	-	-	-	-	< 0.11	< 5.3	-
	4/28/2008	BOT - 12'	80.8	3.23	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050		< 0.11	< 5.3	-
	4/28/2008	SW-N	187	T	< 0.0053	< 0.0053	< 0.0052	< 0.0052	< 0.0052	< 0.0053			T . T	<u> </u>			T . T		<0.11	< 5.3	
~	4/20/2000	SW C	226		+0.0053	<0.0053	+ 0.0053	+0.0053	+0.0053	+0.0053	+		+ - +	+ · · · · ·	· · ·	+ · · · · · · · · · · · · · · · · · · ·		-	-0.11		
0	4/28/2008	200-2	430		< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053		-	-			-	-	-	< 0.11	< 5.3	
	4/28/2008	BOT - 10'	133	6.14	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052		< 0.0050	0.0050	< 0.0050	0.020	0.015	0.035	0.075	< 0.1	5.5	5.5
	4/28/2008	SW-N	155	-	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052		-			-			-	< 0.1	< 5.2	
C8	4/28/2008	SW-S	35.5		< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052		-				-		-	< 0.1	< 5.2	-
	4/29/2009	BOT - 9'	99.6	2.29	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050		<01	(52	
	4/20/2000	501-5	65.0	5.50	10.0032	10.0032	10.0032	10.0032	10.0032	10.0032		10.0000	4 0.0030	10.0000	10.0000	10.0000	10.0050	-	-0.1	-34	
	4/29/2008	SW-N	128		< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	-	-	-	-	-	-	-	-	< 0.11	< 5.3	-
C9	4/29/2008	SW-S	150		< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053		-		-		-	-	-	< 0.11	< 5.3	-
	4/29/2008	BOT - 8'	198	593	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050		< 0.1	< 5.2	-
																1					
	4/29/2008	SW-N	10		< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057	< 0.0057		-			-	-	-	-	< 0.11	< 5.0	-
C10	4/29/2008	SW-S	171	-	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	-	-	-	-	-	-	-	-	< 0.1	< 5.2	-
	4/29/2008	BOT - 8'	198	63.6	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.1	< 5.2	-
	4/29/2008	SW-N	144		< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052		-			-	-			< 0.1	< 5.2	
C11	4/29/2009	CM/.C	162		< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052									<01	(52	
	4/25/2000	007.01	242	(0.0	- 0.0050	- 0.0050	- 0.0055	- 0.0055	0.0053	10.0050	-	0.0050		.0.007.0	.0.0070	.0.0050		-	-0.1	-54	
	4/25/2008	B01+9	242	00.9	< 0.003z	0.0032	< 0.0032	<0.0032	0.0032	<0.003z		C 0.0030	< 0.0030	0.0030	× 0.0030	0.0050	< 0.0030		C0.1	\$3.2	
	4/29/2008	SW-N	125		< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052		-		-		-	-	-	< 0.1	< 5.2	-
C12	4/29/2008	SW-S	205		< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052		-		-	-	-	-		< 0.1	< 5.2	-
	4/29/2008	BOT - 9'	128	6.51	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.1	16	16
	4/30/2008	SW-N	72.5		< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051									< 0.1	< 5.2	
C13	4/30/2008	SW-S	115		< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051		-	-		-	-	-	-	< 0.1	9.2	9.2
	5/1/2008	BOT - 12'	49.3	23	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.1	< 5.2	-
	E/1/2009	CW/ N	76.2		< 0.00E2	< 0.0053	< 0.0012	<0.0053	10.0053	< 0.00E2									-01	-63	
C14	5/1/2000	SW C	< 6.22		+0.0052	<0.0052	+ 0.0052	+0.0052	+0.0052	+0.0052			+ - +	+ · · · · ·	· · ·	+ · · · · · · · · · · · · · · · · · · ·		-	10.12		
C14	3/1/2008	C-Wic			< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	-								×0.12	×0.2	
	5/1/2008	BOT - 8'	4b.Z	2.93	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.1	< 5.2	-
	5/1/2008	SW-N	255		< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052		-		-	-	-	-		< 0.1	< 5.2	-
C15	5/1/2008	SW-S	< 5.14	-	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051		-		-	-	-	-	-	< 0.1	< 5.1	-
	5/1/2008	BOT - 8'	27.2	17	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050		< 0.1	< 5.2	
	-,-,																	-			
	5/2/2008	SW-N	5.31	-	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052		-	-	· ·	-	-	-	-	< 0.1	< 5.1	-
C16	5/2/2008	SW-S	27.3		< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	-	-	-	-	-	-	-	-	< 0.1	< 5.2	-
	5/2/2008	BOT - 8'	94.3	6.78	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.13	< 6.4	-
	5 43 43 69 69	614 M	22.0		.0.0050	.0.0050	. 0.0050	.0.0050	.0.0050	.0.0050		Í		1	i i	1	1		.0.4		
	3/2/2008	31V-N	5.03		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-					1 - 1		-	× 0.1	\$ 3.1	
C17	5/2/2008	SW-S	5.27	-	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052		-		-	-	-	-		< 0.1	< 5.1	
	5/2/2008	BOT - 6'	149	45.3	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.0054	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	-	< 0.11	< 5.4	-
	5/2/2008	SW-N	27.3	- I	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055		- 1	1 . T	- I	I . I				< 0.11	< 5.5	
C18	5/2/2008	SW-S	A6 A		< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	1		+ . +			1 . 1		1	<0.11	<52	t . I
C10	5/2/2008	3W'3	40.4		< 0.0052	<0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052			+0.0050	- 0.0050		- 0.0050			10.11	13.5	<u> </u>
	5/2/2008	BO1 - P	< 5.11	< 0.5	< 0.0051	< 0.0051	< 0.0051	< 0.0051	<0.0051	< 0.0051	<u> </u>	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	<u> </u>	< 0.1	< 5.1	· · ·
	5/2/2008	SW-N	31	-	< 0.0056	< 0.0056	< 0.0056	< 0.0056	< 0.0056	< 0.0056		-			-	-		-	< 0.11	< 5.6	-
	5/2/2008	SW-S-5	36.4	-	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052		-		-	-	-	-	-	< 0.1	< 5.2	-
C19	5/2/2008	SW-W	14		< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.0055		-	1.1	1 . I	I			-	< 0.11	< 5.6	-
	5/2/2008	BOT - 5'	< 5.18	8.82	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.0052		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050		<01	<5.2	<u> </u>
	3/2/2000	DU1 * 3	× 3.10	0.04	N 0.0032	N 0.0032	< 0.003Z	< 0.005Z	< 0.003Z	N 0.0032		< 0.0030	× 0.0030	< 0.0030	N 0.0030	N 0.0030	N 0.0030		NU.1	N 3-2	

1 EPA Method 300.0 MOD

2 SW-846 Method 9056

5/27.008 SVTES ft. Feet bg: Below ground surface mg/kg Milligams per klogam SR/P. Synthetic precipitation leaching procedure SW-N Sidewall-north SW-S Sidewall-south 3,4 SW-846 Method 82608 5 SW-846 Method 80158

SW-W Sidewall-west

BOT Bottom of excavation

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# APPENDIX A C-141 Forms

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District I 1625 N. French	Dr., Hobbs, N	NM 88240		Sta Energy Min	te of	f New Mex	ico I Resources		Form C-141 Revised October 10, 2003					
1301 W. Grand A District III	Avenue, Arte	esia, NM 88210			onse	ervation Div	vision		Submit 2 C	opies to ap	propriate			
1000 Rio Brazos District IV	Road, Aztec	c, NM 87410		1220	Sout	th St. Franc	vision vis Dr.			District ( wi	Office in ac th Rule 116	cordance on back		
1220 S. St. Franc	cis Dr., Santa	a Fe, NM 87505		Sai	nta I	Fe, NM 875	505				sid	e of form		
			Rele	ease Notifica	atio	on and Co	orrective A	ction	$\frown$		<b>\</b>			
N		DL			OF	PERATOR			🛛 Initia	al Report	Fin	al Report		
Address 31	mpany C	A St Bldg	5 Comp	any nd TX 79705-54	106	Telephone l	No. 505.391.31	158	<u> </u>		/			
Facility Nan	ne Wyatt	A Federal	, 11101A	nu, 17 ///05-5-	100	Facility Typ	be Oil and Ga	\$						
Surface Ow	ner State	of New Me	xico	Mineral O	wner	BLM			Lease No	NM1085	07			
				LOCA	TIC	ON OF RE	LEASE							
Unit Letter E	Section 33	Township 17S	Range 33E	Feet from the	Nort	th/South Line	Feet from the	East/V	Vest Line	County Lea				
L	ll		L	atitude N 32.79	480	Longit	nde W 103.67	433			· ····			
				NAT			FASF	100						
Type of Relea	ase			INAL	Vo	lume of Releas	e		Volume R	Recovered		]		
Crude Oil		an de l'al 19 - 19 - 19 - 19 - 19 - 19 - 19 - 19			21	bbl (21oil, 0w	ater)		(4oil, 0wa	iter)				
300 bbl Ste	lease el Tank				Dat 7-2	te and Hour of 29-2007 02:00	Occurrence		Date and 7-29-2007	Hour of Dis 7 07:30	covery			
Was Immedia	ate Notice C	Given?	M Not	Required	If Y Pot	YES, To Whon t Richards N		a-w	<u> </u>					
By Whom?	Mickey G	arner			Dat	te and Hour 7	-29-2007 17:52							
Was a Watero	ourse Reac	:hed?	Ves 🕅	1 No	If Y	YES, Volume I	mpacting the Wat	ercourse		<u>,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>				
If a Watercou	rse was Im	nacted Descr	ibe Fully	y 110 +		A			·					
N/A	ise was mij	puotou, isoser	loo r uny.											
Describe Cau	se of Proble	em and Reme	dial Actio	n Taken.*			······				•···-,			
The source	of dischar	rge was a ho	de in the	bottom of a 300	) bbl	l steel tank. A	vacuum trucl	k was ca	alled out 1	to pick up	free liqui	ds.		
Describe Area	a Affected a	and Cleanup A	Action Tal	cen.*			adama Na ua			ated The				
delineated a	and remed	liated in acc	ordance	n of prepared lo	guid	on pad and r lelines.	oadway. No ve	getatio	n was alle	ected. 1 ne	area will	De		
I hereby certi	fy that the i	nformation gi	ven above	e is true and comple	ete to	the best of my	knowledge and u	inderstar	nd that purs	uant to NM	OCD rules	and		
regulations al	l operators	are required to	o report a	nd/or file certain re	lease	notifications a	nd perform corre	ctive acti	ions for reli	eases which	may endan	ger		
should their o	perations h	ave failed to a	dequately	investigate and re	medi	ate contaminat	ion that pose a th	reat to gr	ound water	r, surface wa	ter, human	health		
or the enviror	ment. In a	ddition, NMC	CD accep	ptance of a C-141 r	eport	does not reliev	e the operator of	responsi	bility for c	ompliance w	ith any oth	er		
		-					OIL CON	SERV	ATION	DIVISIC	<u>N</u>			
Signature:	$\sim$	$\geq$	$\sum$				Finler	Elar						
Printed Name	: Mickey (	Garner				Approved by	District Supervis	DIGE TOT	Jal	se				
Title: HSER	Lead		<u>, , , , , , , , , , , , , , , , , , , </u>	<u> </u>		Approval Da	te 8.3.0	7	Expiration	Date: 10	. 3.0	7		
E-mail Addre	ss: Mickey	D.Garner@	conoconh	illins com		Conditions o	f Approval:	<u></u> 1			A			
Data: 7 31	2007		DL	505 201 2150		CIRO	- A C Excas		4١	Attached				
• Attacl	h Addition	al Sheets If	Necessar	y		LOUDON(77	nc or i iNH				701	L]		
				-		ON DECH	GUIDN & CI	<i>∑A</i> ⊓⊽QF	, Docin	R		1318		

Received by OCD: 2/12/2021 2:59:55 PM Form C-141 State of New Mexico

Oil Conservation Division

	Page 18 of 265
Incident ID	
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🗌 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🗌 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🗌 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🗌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🗌 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🗌 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🗌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🗌 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🗌 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

## Characterization Report Checklist: Each of the following items must be included in the report.

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
Field data
Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
Boring or excavation logs
Photographs including date and GIS information
Topographic/Aerial maps

Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

<b>Received by OCD: 2/12/20</b> Form C-141 Page 4	21 2:59:55 PM State of New Mexico Oil Conservation Division		Incident ID District RP Facility ID Application ID	Page 19 of 265
I hereby certify that the info regulations all operators are public health or the environn failed to adequately investig addition, OCD acceptance o and/or regulations.	rmation given above is true and complete to the required to report and/or file certain release noti nent. The acceptance of a C-141 report by the C ate and remediate contamination that pose a three f a C-141 report does not relieve the operator of	best of my knowledge ar fications and perform co DCD does not relieve the eat to groundwater, surfa responsibility for compl	nd understand that pursu prective actions for rele operator of liability sho ce water, human health iance with any other fee	uant to OCD rules and ases which may endanger buld their operations have or the environment. In deral, state, or local laws
Printed Name:	/	Title:		
Signature:		Date:		
email:		Telephone:		
OCD Only				
Received by:		Date:		

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

<b><u>Closure Report Attachment Checklist</u></b> : Each of the following is	tems must be included in the closure report.						
A scaled site and sampling diagram as described in 19.15.29.11 NMAC							
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)							
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)						
Description of remediation activities							
I hereby certify that the information given above is true and comple and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the co accordance with 19.15.29.13 NMAC including notification to the O Printed Name:	te to the best of my knowledge and understand that pursuant to OCD rules n release notifications and perform corrective actions for releases which a C-141 report by the OCD does not relieve the operator of liability nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for ations. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. 						
email:	Telephone:						
OCD Only							
Received by:	Date:						
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.							
Closure Approved by:	Date:						
Printed Name:	Title:						

Page 6

# APPENDIX B Site Characterization Data



(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)	3	(qua (qua	rter rter	s a s a	are 1 are s	=NW malles	2=NE 3 st to lar	3=SW 4= gest)	=SE) (NA	) AD83 UTM in me	eters)	(1	In feet)	
POD Number	POD Sub- Code basin C	ount	Q y 64	Q 16	Q 4	Sec	Tws	Rng		x	Y	Distance	Depth Well	Depth Water	Water Column
L 14159 POD1	L	LE	3	1	3	28	17S	33E	6240	30	3630169 🌍	857	298	165	133
<u>L 03713</u>	L	LE	3	4	1	28	17S	33E	6243	91	3630617* 🌍	1321	210		
											Avera	ge Depth to	Water:	165	feet
												Minimum	Depth:	165	feet
												Maximum	Depth:	165	feet
Record Count: 2															

## UTMNAD83 Radius Search (in meters):

Easting (X): 624141.15

Northing (Y): 3629319.47

Radius: 1600

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

## 1RP-1518



NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division



# APPENDIX C Work Plan (Tetra Tech, August 10, 2007)

Received by OCD: 2/12/2021 2:59:55 PM



TETRA TECH, INC.

August 10, 2007

Mr. Larry Johnson New Mexico Oil Conservation Division 1625 N. French Dr. Hobbs, NM 88240 Ms. Trishia Bad Bear US Bureau of Land Management 414 West Taylor Hobbs, NM 88240

1703 W. Industrial Ave. Midland, Texas 79701 (432) 686-8081

RE: Wyatt A Federal Work Plan - Revised Lea County, New Mexico Unit E, Sec. 33, T17S, R33E OCD RP#1518

Dear Mr. Johnson:

On Behalf of ConocoPhillips, Tetra Tech, Inc. (Tetra Tech) submits this work plan to perform a subsurface investigation at ConocoPhillips' MCA Wyatt A Federal (Site; Figure 1). This work is in support of ConocoPhillips efforts to delineate and remediate a recent 21 barrel crude oil release onto an oil field road ( $10 \times 1,100$  feet; C141 attached) and on the backside of the battery. The Site is below and located approximately 0.4 miles southwest of the Mescalero Ridge. It is approximately 5.9 miles southeast of ConocoPhillips' Maljamar office. (32.79480N, 103.37433W). The State of New Mexico is the land administrator.

Wyatt A is located in the Querecho Plains of eastern New Mexico. This area generally consists of a thin cover of Quaternary sand dunes overlying the undivided Triassic Upper Chinle Group .<sup>1</sup> The Pyote and Dune Series soil at the Site consists of very deep well-drained sand and sandy loam. Typically, the surface layer is yellowish red to dark reddish-brown fine sand. It is underlain by yellowish red sandy clay. Below this is light yellowish brown gravelly fine sandy loam.<sup>2</sup>

Depth to water in the vicinity of the Site is estimated to be approximately 90 feet below ground surface (fbgs). This interpretation is based potentiometric surface contours described by Nicholson and Clebsch<sup>1</sup> for groundwater conditions in Southern Lea County. The New Mexico Office of State Engineer's database<sup>3</sup> did not yield any depth to groundwater information in this area. The United States Geological Survey's database<sup>4</sup> only described groundwater conditions above Mescalero Ridge. Nicholson and Clebsch did indicate a well approximately 2.1 miles to the northwest that registered groundwater at 70 fbgs.

Fresh surface water is not present in the area. There are dry playas that briefly hold water following a rainfall event. The nearest playa is approximately 330 feet northwest of the site.

<sup>&</sup>lt;sup>1</sup> Nicholson Jr., A. and A. Clebsch, 1961. Geology and Ground-Water Conditions in Southern Lea County, New Mexico. USGS, GW Rpt 6, Socorro, NM. pp. 123.

<sup>&</sup>lt;sup>2</sup> U.S. Department of Agriculture, Natural Resources Conservation Services. Web Soil Survey Database.

<sup>&</sup>lt;sup>3</sup> New Mexico Office of State Engineer. W.A.T.E.R.S. Database.

<sup>&</sup>lt;sup>4</sup> United States Geological Survey, Groundwater Levels for the Nation Database.

Mr. Johnson August 10, 2007 Page 2 Wyatt A Federal

Following the ranking criteria presented in "*Guidelines for Remediation of Leaks, Spills, and Releases*" promulgated on August 13, 1993 by the NMOCD, this Site has the following score:

<u>Criteria</u>		Ranking <u>Score</u>
Depth to groundwater	<100 feet	10
Distance from water source	>1000 feet	0
Distance from domestic water source	>200 feet	0
Distance from surface water body	<1,000 feet	<u>10</u>
Total Ranking Score		20

The remediation action level for a ranking score of >19 is 10 parts per million (ppm) for benzene, 50 ppm for total benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 100 ppm for total petroleum hydrocarbons (TPH).

## Scope of Work

To delineate the lateral and vertical extent of the crude oil affected area, Tetra Tech will perform the following activities:

- 1. A backhoe will be used to dig exploratory trenches in the affected area.
- 2. The New Mexico Oil Conservation Division (NMOCD) and the BLM will be notified 48 hours prior to initiation of the site investigation.
- 3. It is anticipated that five (3) 15-foot long trenches will be excavated across the 1,100-foot long affected area and two (2) trenches will be excavated on the back side of the battery (Figure 2). Soil samples will be collected every five feet from 3 locations (clean left, affected area, clean right) in each trench. Soil samples collected from the trenches will be field tested using chloride and electrical conductivity (EC) field screened techniques<sup>5,6</sup> to find the vertical and lateral clean boundary of the release area. A photo-ionization detector (PID) will be used to screen for volatile organic hydrocarbons (VOC). Diesel range petroleum hydrocarbons (TPH <sub>DRO</sub>) will be field screened using a PetroFLAG System.<sup>7</sup> Field analyses using a chloride test kit and EC test will determine that a clean boundary of less than (<) 1,000 milligrams per kilogram (mg/kg) chloride and < 1,000 micro Siemens per meter ( $\mu$ S/m) EC. VOC and TPH <sub>DRO</sub> field analysis will determine the clean boundary of < 10 parts per million (ppm) VOC and < 100 ppm TPH.

<sup>&</sup>lt;sup>7</sup> U.S. Environmental Protection Agency, 2001. Innovative Technology Verification Report, Dexsil Corporation PetroFLAG<sup>TM</sup> System. Prepared by Tetra Tech EM Inc. for USEPA National Exposure Research Laboratory Office of Research and Development. EPA/R-01/092.



<sup>&</sup>lt;sup>5</sup> U.S. Environmental Protection Agency Grant No. R827015-01-1. IPEC Guidelines for Remediation of Small Brine Spills, January 12, 2004. Univ. of Tulsa, OK.

<sup>&</sup>lt;sup>6</sup> Conner, J.A. and C.J. Newell. 2004. Strategies for Addressing Oil Field Brine Releases to Plants, Soil and Groundwater. Publ. No. 4758, American Petroleum Institute, Washington D.C. p 25.

Mr. Johnson August 10, 2007 Page 3 Wyatt A Federal

- 4. Six to Nine soil samples from each soil trench (highest salinity and TPH <sub>DRO</sub> reading and basal sample, (45 possible) will be submitted to a laboratory for confirmation analyses. The samples will be placed into glass sample jars, sealed with Teflon-lined lids, and placed on ice for transportation to an analytical laboratory where they will be analyzed for chloride (USEPA Method 300.0A), electrical conductivity (Standard Method 2510B SW-846 Method 9050A), total petroleum hydrocarbons (TPH<sub>DRO</sub> and TPH<sub>GRO</sub>, Method 8015) and benzene, ethylbenzene, toluene and total xylenes (BTEX, Method 8260). In addition, the basal samples (5) from each soil trench will be analyzed for BTEX and chloride synthetic precipitation leaching potential (SPLP<sub>BTEX</sub> and SPLP<sub>CI</sub>; USEPA Method 1312/8015 & 300.0A, respectively). These analyses will be used to confirm clean boundaries have been identified.
- 5. Excavated soil will be returned to the trench for handling during site remediation.

Tetra Tech will supervise and direct all subcontractor activities, and prepare a findings report describing and documenting what was done at the Site, including a site map. This report on activities, results, and recommendations will be submitted for ConocoPhillips, BLM's and NMOCD's review and approval.

## **Project Schedule**

ConocoPhillips has authorized Tetra Tech to proceed and Tetra Tech is prepared to commence work on this project immediately following receipt of NMOCD's and BLM's notification to proceed.

Mr. Greg Pope will serve as the Project Manager and will have the authority to commit whatever resources are necessary to support the project team. It will be Mr. Pope's responsibility to ensure that the Client's needs are met in terms of scope of work and schedule. Mr. Pope is located in Tetra Tech's Midland, Texas, office.

If you concur with this Work Plan, please authorize by giving me or Mr. Greg Pope notification to proceed. Please contact me or Mr. Pope if you have any questions or require additional information.

Sincerely,

Tetra Tech, Inc. Charles Durrett DN CN = Charles Durrett C = US, 0 = Date 2007 09 10 08 36 51 -05'C0'

Charles Durrett Office Manager Greg W. Pope, P.G. Project Manager

Cc: Mickey Garner, ConocoPhillips

Attachment









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District I 1625 N. French Dr., Hob District II	bs, NM 88240		Sta Energy Min	ite of nerals	f New Mex and Natura	ico I Resources			Rev	For ised Octob	m C-141 er 10, 2003
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I hereby certify that the regulations all operation public health or the elevation of the environment. federal, state, or loca	he information g ors are required nvironment. Th ns have failed to In addition, NM 1 laws and/or reg	given above to report a e acceptan adequately OCD accep gulations.	c is true and compl nd/or file certain re ce of a C-141 repo y investigate and re ptance of a C-141 r	lete to elease ort by t emedia report	the best of my notifications a the NMOCD m ate contaminat does not reliev	knowledge and u nd perform corre- narked as "Final R ion that pose a the re the operator of	understan ctive act leport" d reat to gi respons	nd that pur- ions for rel loes not rel round wate ibility for c	suant to NMC eases which n ieve the opera- r, surface was ompliance w	OCD rules may endat ator of lia ter, human ith any ot	s and nger bility n health her
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Printed Name: Mick	ey Garner					•	$\leq$	s px	JED_		
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# APPENDIX D Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-02365	DESCRIPTION	View facing east of release on pad.	1
	SITE NAME	Wyatt A Federal Tank Release	8/03/2007



TETRA TECH, INC.	DESCRIPTION	View facing east of release.	2
212C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	8/03/2007



TETRA TECH, INC. PROJECT NO. 212C-MD-02365	DESCRIPTION	View facing north of release on pad.	3
	SITE NAME	Wyatt A Federal Tank Release	8/03/2007



TETRA TECH, INC. PROJECT NO. 212C-MD-02365	DESCRIPTION	View facing west of release exiting lease pad (toward old access road).	4
	SITE NAME	Wyatt A Federal Tank Release	8/03/2007



TETRA TECH, INC. PROJECT NO. 212C-MD-02365	DESCRIPTION	View facing east of active excavation.	5
	SITE NAME	Wyatt A Federal Tank Release	4/15/2008



TETRA TECH, INC.	DESCRIPTION	View facing west of active excavation	6
212C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	4/15/2008



TETRA TECH, INC. PROJECT NO. 212C-MD-02365	DESCRIPTION	View facing north of active excavation.	7
	SITE NAME	Wyatt A Federal Tank Release	4/22/2008



TETRA TECH, INC. PROJECT NO. 212C-MD-02365	DESCRIPTION	View facing east of excavation on lease pad.	8
	SITE NAME	Wyatt A Federal Tank Release	4/22/2008


TETRA TECH, INC. PROJECT NO. 212C-MD-02365	DESCRIPTION	View facing north from pasture excavation.	9
	SITE NAME	Wyatt A Federal Tank Release	4/22/2008



ſ	TETRA TECH, INC. PROJECT NO. 212C-MD-02365	DESCRIPTION	View facing northwest pasture excavation. ~ (Max digging depth of machine is 21'11".)	10
		SITE NAME	Wyatt A Federal Tank Release	4/22/2008



TETRA TECH, INC. PROJECT NO. 212C-MD-02365	DESCRIPTION	View facing northwest of excavation on lease pad.	11
	SITE NAME	Wyatt A Federal Tank Release	4/23/2008



TETRA TECH, INC.	DESCRIPTION	View facing southeast of trench/excavation in pasture and road.	12
212C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	4/30/2008



TETRA TECH, INC. PROJECT NO. 212C-MD-02365	DESCRIPTION	View facing south of excavation on lease pad.	13
	SITE NAME	Wyatt A Federal Tank Release	5/5/2008



TETRA TECH, INC.	DESCRIPTION	View facing north of excavation on lease pad.	14
212C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	5/5/2008



TETRA TECH, INC. PROJECT NO. 212C-MD-02365	DESCRIPTION	View facing north of liner deployment on pad.	15
	SITE NAME	Wyatt A Federal Tank Release	5/5/2008



TETRA TECH, INC. PROJECT NO. 212C-MD-02365	DESCRIPTION	View facing south of liner deployed across excavation on lease pad.	16
	SITE NAME	Wyatt A Federal Tank Release	5/5/2008



TETRA TECH, INC. PROJECT NO. 212C-MD-02365	DESCRIPTION	View facing east of liner deployed near pad.	17
	SITE NAME	Wyatt A Federal Tank Release	5/5/2008



TETRA TECH, INC. PROJECT NO. 212C-MD-02365	DESCRIPTION	View facing northwest of liner deployment in pasture excavation.	18
	SITE NAME	Wyatt A Federal Tank Release	5/5/2008



TETRA TECH, INC. PROJECT NO. 212C-MD-02365	DESCRIPTION	View facing southeast of deployed liner in both pasture and pad excavation.	19
	SITE NAME	Wyatt A Federal Tank Release	5/5/2008



TETRA TECH, INC.	DESCRIPTION	View facing west of backfill activities.	20
212C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	5/5/2008



TETRA TECH, INC.	DESCRIPTION	View facing east of backfill activities.	21
212C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	5/5/2008



TETRA TECH, INC.	DESCRIPTION	View facing east of backfilled excavation.	22
212C-MD-02365	SITE NAME	Wyatt A Federal Tank Release	5/5/2008

# APPENDIX E Findings Report (Tetra Tech, November 26, 2007)

Received by OCD: 2/12/2021 2:59:55 PM



1703 W. Industrial Ave. Midland, Texas 79701 (432) 686-8081

November 26, 2007

Mr. Mickey Garner ConocoPhillips HC60 Box 66 Lovington, NM 88260

#### RE: Wyatt A Federal Battery Findings Report Lea County, New Mexico Unit E, Sec. 33, T17S, R33E OCD 1RP# 1518

Dear Mickey:

Tetra Tech, Inc. (Tetra Tech) is pleased to submit this findings report for a subsurface investigation at ConocoPhillips' East Vacuum Grayburg, San Andres Unit, Wyatt A Federal Battery crude oil release site (Site; Figure 1). This work is in support of ConocoPhillips efforts to remediate a recent 21 barrel crude oil release onto an oil field road (4 x 1,100 feet; C141 attached) and on the back side of the battery. The Site is below and located approximately 0.4 miles southwest of Mescalero Ridge. It is approximately 5.9 miles southeast of ConocoPhillips' Maljamar office (32.79480N, 103.37433W). Mr. John Norris owns the surface while the U.S. Bureau of Land Management (BLM) administers the minerals.

Wyatt A is located in the Querecho Plains of eastern New Mexico. This area generally consists of a thin cover of Quaternary sand dunes overlying the undivided Triassic Upper Chinle Group.<sup>1</sup> The Pyote and Dune Series soil at the Site consists of very deep well-drained sand and sandy loam. Typically, the surface layer is yellowish red to dark reddish-brown fine sand. It is underlain by yellowish red sandy clay. Below this is light yellowish brown gravelly fine sandy loam.<sup>2</sup>

#### **Exposure Pathway Analysis**

Depth to water in the vicinity of the Site is estimated to be approximately 90 feet below ground surface (fbgs). This interpretation is based on potentiometric surface contours described by Nicholson and Clebsch<sup>1</sup> for groundwater conditions in Southern Lea County. The New Mexico Office of State Engineer's database<sup>3</sup> did not yield any depth to groundwater information in this area. The United States Geological Survey's database<sup>4</sup> only described groundwater conditions

<sup>&</sup>lt;sup>1</sup> Nicholson Jr., A. and A. Clebsch, 1961. Geology and Ground-Water Conditions in Southern Lea County, New Mexico. USGS, GW Rpt 6, Socorro, NM. pp. 123.

<sup>&</sup>lt;sup>2</sup> U.S. Department of Agriculture, Natural Resources Conservation Services. Web Soil Survey Database.

<sup>&</sup>lt;sup>3</sup> New Mexico Office of State Engineer. W.A.T.E.R.S. Database.

<sup>&</sup>lt;sup>4</sup> United States Geological Survey. Groundwater Levels for the Nation Database.

Wyatt A Federal Battery Findings Report

above Mescalero Ridge. Nicholson and Clebsch did indicate a well approximately 2.1 miles to the northwest that registered groundwater at 70 fbgs.

A water well (depth to water unknown) supplying fresh water to a stock pond is located approximately 0.8 miles northwest of the Site. There are dry playas that briefly hold water following a rainfall event. The nearest playa is approximately 330 feet northwest of the Site.

Following the ranking criteria presented in "*Guidelines for Remediation of Leaks, Spills, and Releases*" promulgated on August 13, 1993 by the New Mexico Oil Conservation Division (NMOCD), this Site has the following score:

Criteria		Ranking Score
Depth to groundwater	<100 feet	10
Distance from water source	>1000 feet	0
Distance from domestic water source	>200 feet	0
Distance from surface water body	<1,000 feet	<u>10</u>
Total Ranking Score		20

The remediation action level for a ranking score of >19 is 10 parts per million (ppm) for benzene, 50 ppm for total benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 100 ppm for total petroleum hydrocarbons (TPH).

#### Scope of Work

At the request of ConocoPhillips, Tetra Tech initiated a subsurface investigation of the crude oil release Site. Tetra Tech excavated six (6) exploratory trenches using a backhoe at Wyatt A Federal Battery to find a chloride (< 1,000 ppm) and BTEX (< 100 ppm) clean boundary. The objective was to find a "clean boundary" in the horizontal and vertical extent.

Three (3) 15-foot long trenches were excavated across the 1,100-foot long affected road, two (2) trenches were excavated on the back side of the battery, and one (1) trench was excavated adjacent to the leaking tank location (Figure 2). Soil samples were collected every 5 feet from three (3) road locations (clean left, affected area, clean right) in each trench. Soil samples collected from the trenches were field tested using chloride and electrical conductivity (EC) field screened techniques<sup>5/6</sup> to find the vertical and lateral clean boundary of the release area. The photoionization detector (PID) malfunctioned during the screening for volatile organic compounds (VOC).

The practical excavation depth was 15 fbgs owing to the limit of the backhoe arm extension. Six (6) soil samples from each road trench (T-1, -2 and -3) and two (2) soil samples from each

<sup>&</sup>lt;sup>6</sup> Conner, J.A. and C.J. Newell. 2004. Strategies for Addressing Oil Field Brine Releases to Plants, Soil and Groundwater. Pub. No. 4758, American Petroleum Institute, Washington D.C. p 25.



<sup>&</sup>lt;sup>5</sup> U.S. Environmental Protection Agency Grant No. R827015-01-1. IPEC Guidelines for Remediation of Small Brine Spills, January 12, 2004. Univ. of Tulsa, OK.

Wyatt A Federal Battery Findings Report

trench in and around the battery (T-4, -5, and -6) were retained and submitted to the laboratory for analyses. The sampling interval was based on EC field screening, and on the judgment of the field personnel. The scil sample with the highest EC measurement and the sample from the excavation total depth were retained for chemical analysis.

The samples (24) were placed into glass sample jars, sealed with Teflon-lined lids, and placed on ice for transportation to an analytical laboratory where they were analyzed for chloride (USEPA Method 300.0A), electrical conductivity (Standard Method 2510B SW-846 Method 9050A), diesel and gasoline range hydrocarbons (TPH<sub>DRO</sub> and TPH<sub>GRO</sub>, Method 8015) and BTEX (Method 8260). In addition, one (1) basal sample for the trench inside the battery area was analyzed for BTEX and chloride synthetic precipitation leaching potential (SPLP<sub>BTEX</sub> and SPLP<sub>CI</sub>; USEPA Method 1312/8015 & 300.0A, respectively).

All soils generated by soil excavation were returned to each trench to be remediated later.

#### Findings

Excavations advanced during the investigation at the Site encountered sand and sandy loam. Typically, the surface layer is yellowish red to dark reddish-brown fine sand. It is underlain by yellowish red sandy clay. The underlying unit was sandy clay interbedded with caliche.

Summaries of subsurface environmental conditions are presented in Table 1. A complete laboratory analytical report is presented in Appendix A.

Field screening data for EC and visual observations were used to define the horizontal and vertical extent of affected soil (Table 1). Along the road, field EC ranged from 61 to 3,817 micro-Siemens per centimeter ( $\mu$ S/cm). In and around the tank battery, EC readings ranged from 161 to 1,235  $\mu$ S/cm. Owing to heavy crude oil staining in trench T-6, EC readings were not taken.

Laboratory analyses for chloride concentrations are presented in Table 1. Chloride concentrations in trenches in the road ranged from 7.54 milligrams per kilogram (mg/Kg) in trench T-2C (0-0.5 feet) to 3,750 mg/Kg at trench T-3A (5 feet). In trenches around the tank battery, chloride concentration ranged from 58.8 to 1,301 mg/Kg. SPLP analysis for road trench bottom chloride concentrations were below New Mexico Water Quality Control Commission (NMWQCC) standards for water quality [250 milligrams per liter (mg/L)] and ranged from 2.03 to 156 mg/L in trenches T-1C (5 feet) and T-3A (5 feet), respectively. SPLP analysis for water quality and ranged from 21.9 to 56.3 mg/L in trenches T-6 (10 feet) and T-4 (10 feet), respectively.

Gasoline and diesel range hydrocarbons (TPH<sub>GRO</sub> and TPH<sub>DRO</sub>) and BTEX laboratory analyses are present in Table 1. TPH concentrations above NMOCD action levels were noted in surface samples from the center sampling point of the road trenches T-1, -2 and -3. Also TPH concentrations above NMOCD action levels were observed in T-1C (5 feet), T-2C (0-0.5 feet) and T-2C ((0-0.5 feet) and T-3A (0-0.5 and 5 feet) and T-3B (10 feet). TPH concentrations in the battery area were detected above NMOCD remediation guidelines in all three battery trenches. Except for T-6 (0-0.5 feet), benzene concentrations were not detected in any of



Wyatt A Federal Battery Findings Report

trench sampling locations. Benzene concentration in T-6 was below NMOCD action levels. Total BTEX concentrations above NMOCD action levels were noted in trenches T-4 (0-0.5 feet) and T-6 (0-0.5 feet). SPLP analyses for trench bottom BTEX concentrations were not detected any of the trenches except for T-3B (0.1089 mg/L) at 10 fbgs and T-4 (0.0256 mg/L) at 10 fbgs. However, these total concentrations were below NMWQCC water quality standards for ethylbenzene, toluene or xylenes (total).

Table 1 ConocoPhillips Wyatt A Federal Battery Subsurface Investigation 9/20/2007

	Sample	Field	Specific		SPLP	Т	РН		Ethyl-		Xylenes	Total	SPLP
Location	Depth (ft)	EC (µS/cm)	Conductivity (µmhos/cm)	Chloride (mg/Kg)	Chloride (mg/L)	GRO (mg/Kg)	DRO (mg/Kg)	Benzene (mg/Kg)	benzene (mg/Kg)	Toluene (mg/Kg)	Total (mg/Kg)	BTEX (mg/Kg	BTEX (mg/L)
T-1 A	0-0.5	185	340	18.4		1.73	12	ND	0.00697	ND	ND	0.00697	
	5	432	639	134	6.1	ND	24	ND	ND	ND	ND	ND	ND
В	0-0.5	225	254	18.2		927	19,000	ND	14.4	3.57	24	41.97	
	5	428	721	149	5.79	ND	ND	ND	ND	ND	ND	ND	ND
С	0-0.5	106	140	8.33		1.13	ND	ND	ND	ND	ND	ND	
	5	133	319	27.5	2.03	ND	110	ND	ND	ND	ND	ND	ND
T-2 A	0-0.5	952	154	7.73		ND	19	ND	ND	ND	ND	ND	1.00
1.	5	560	1,540	275	11.3	ND	ND	ND	ND	ND	ND	ND	ND
В	0-0.5	111	186	10.2		40.1	4,000	ND	0.0099	0.00717	0.0199	0.03697	
	5	743	1,460	221	9.66	ND	13	ND	ND	ND	ND	ND	ND
С	0-0.5	61	116	7.54	1	ND	260	ND	ND	ND	ND	ND	the second second
A Production	5	302	762	67.9	3.28	ND	ND	ND	ND	ND	ND	ND	ND
T-3 A	0-0.5	239	492	29.2		ND	1,400	ND	ND	ND	ND	ND	A
	5	3,817	8,980	3,750	156	ND	600	ND	ND	ND	ND	ND	ND
В	10	189	1,030	152	5.31	714	15,000	ND	14.1	2.62	26.4	43.12	0.1089
1	14	1,925	4,780	1,570	75.8	ND	31	ND	ND	ND	ND	ND	ND
С	0-0.5	78	194	9.3		ND	12	ND	ND	ND	ND	ND	
	5	1,127	4,050	1,510	59.5	ND	ND	ND	ND	ND	ND	ND	ND
T-4	0-0.5		2,890	285		1,800	27,000	ND	49.9	11.3	89.4	150.6	1. Ph
	10	1,235	4,390	1310	56.3	757	6,500	ND	ND	ND	0.0488	0.0488	0.0256
T-5	0-0.5	161	462	58.8		3.53	540	ND	ND	ND	ND	ND	
1. · · · · · ·	5	1,202	3,250	1,110	47.5	ND	ND	ND	ND	ND	ND	ND	ND
T-6	0-0.5		2,300	726	-	1,120	11,000	0.481	13	8.88	36.2	58.561	
	10		1,890	491	21.9	ND	63	ND	ND	ND	ND	ND	ND

EC = Electrical conductivity ft = Feet

ppm = Parts per million µS/cm = microSiemens per centimeter mg/Kg = Milligrams per kilogram Blank = No data TPH = Total petroleum hydrocarbons

 $\label{eq:transform} \begin{array}{l} TPH_{GRO} = Gasoline range petroleum hydrocarbons \\ TPH_{ORO} = Diesel range petroleum hydrocarbons \\ SPLP = Synthetic precipitation leaching procedure \\ \mu mhos/cm = micro-Ohms per centimeter \\ mg/L = Milligrams per liter \end{array}$ 

#### Conclusions

According to laboratory analysis of soils collected during this investigation, chloride, TPH and BTEX were detected in road and battery trenches. Exposure pathway analysis indicated a ranking score of "20." Therefore, the site-specific remediation levels are 100 mg/kg for TPH, 50 mg/Kg for BTEX and 10 mg/Kg for benzene. Based on laboratory analyses presented in Table 1, the impacts to soil within historic road area and around the battery are above the NMOCD action level for TPH. Benzene was detected in only one trench sample and it was below NMOCD action levels. BTEX was present above NMOCD action levels only in the battery area. Chloride concentrations were present in all trench samples and were higher near the battery.

Risk Analysis - The SPLP evaluates the potential for leaching materials into groundwater. It provides an assessment of material mobility under field conditions (i.e. rainfall) and is a method



Wyatt A Federal Battery Findings Report

of choice when evaluating fate and transport<sup>7</sup>. Depth to water in the vicinity of the Site is estimated to be approximately 90 fbgs. The SPLP analysis of soil collected in the investigation indicated leachable concentrations BTEX were noted at two sampling locations but were below NMWQCC water quality standards for ethylbenzene, toluene or xylenes (total). SPLP chloride leachable concentrations were present in soil at concentrations ranging from 2.03 to 156 mg/L and were also below NMWQCC water quality standards for chloride (250 mg/L).

#### Recommendations

Tetra Tech recommends the following actions be taken at Wyatt A Federal Battery:

- Affected Soil in the historic road bed will be excavated. Beginning at trench T-3 and east toward and including the battery, soil will be excavated to a depth of approximately 3 to 4 feet or until the BTEX concentrations are below NMOCD action level of 100 ppm on a PID. The excavated material will be hauled to a State approved disposal location.
- Aliquot soil samples will be collected in a "W" pattern, composited into one sample for each sidewall and floor in the T-3 to battery area excavation, and field analyzed using PID, PetroFlag-TPH, and chloride field screening to determine that remediation levels have been achieved (< 10 ppm benzene, < 100 ppm TPH and < 1,000 ppm chloride).</li>
- The road excavation (anticipated 5 to 10 feet depth) sidewalls and floor will be randomly screened every 50 feet using a PID, PetroFlag-TPH, and chloride field screening to determine that remediation levels have been achieved (< 10 ppm benzene, < 100 ppm TPH and < 1,000 ppm chloride).</li>
- Companion composite T-3/battery and road excavation samples will be submitted to a laboratory for TPH<sub>GRO</sub>, TPH<sub>DRO</sub>, BTEX and chloride analyses to confirm that these constituents have been removed to concentrations below remediation guidelines.
- In the T-3/battery area, the remaining soil in the excavation will be slightly domed (1 foot higher than the sides). The slight doming of the soil beneath a "liner" material will promote lateral drainage off of the geo-membrane after placement. The dome will be hand groomed by removing any large sticks and smoothing the surface. A one foot deep anchor trench will constructed around the inside perimeter of the excavation and a 40-mil medium density polyethylene geo-membrane will be installed over the domed area. The membrane will be cut to fit into the perimeter trench and native soil will be backfilled around the perimeter to hold the geo-membrane in-place. Native soil with no rocks or debris will be backfilled over the membrane to meet surrounding surface grades which would complete the remediation. Four carsonite markers will set at the corners of the remediation area notifying interested parties that a subsurface structure was in-place. The inscription on each marker would read "CAUTION, SUBSURFACE STRUCTURE, Call Before Digging, MCA Unit 505-393-0130." The affected soil below the liner will be left in place until the battery is permanently closed in accordance with NMOCD and BLM rules for site abandonment.

<sup>&</sup>lt;sup>7</sup> Alforque, Maricia, 1996. Synthetic Precipitation Leaching Procedure. USEPA Manchester Laboratory Tech Notes 9/06/1996.



Wyatt A Federal Battery Findings Report

- The excavation in the historic road will be backfilled with native soil located adjacent to the road.
- Native plant seed recommended by landowner will be broadcasted over the historic roadbed. The T-3/battery area will continue to be used during oil production.
- Tetra Tech will supervise and direct all subcontractor activities and following the remediation activities, prepare a report describing and documenting what was done for closure activities at the Site, including a site map. This report on activities and results will be submitted for NMOCD's and BLM's review and ultimate closure of this voluntary remediation.

#### Project Schedule

Tetra Tech is prepared to commence work on this project immediately following receipt of your notification to proceed.

#### **Project Approach**

Mr. Greg Pope will serve as the Project Manager and will have the authority to commit whatever resources are necessary to support the project team. It will be Mr. Pope's responsibility to ensure that the Client's needs are met in terms of scope of work and schedule. Mr. Pope is located in Tetra Tech's Midland, Texas, office.

#### **Basis of Billing**

If you concur with this Work Plan and attached Cost Estimate, please return a signed copy of this letter as Tetra Tech's authorization to proceed. Please contact me or Mr. Greg Pope, if you have any questions or require additional information.

Sincerely,

Tetra Tech, Inc. Digitality signed by Charles Durrett DN: CN = Charles Durrett, C = US, O = Tetra Tech Reason: I am the author of this document Date: 2007.11.26 07:56:04.0600'

Charles Durrett Office Manager

Authorization to Proceed:

Greg W. Pope, P.G. Project Manager

Mr. Mickey Garner ConocoPhillips, Inc. Date







Source: NRCS, Web Soil Survey. No scale.



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District I 1625 N. French District II	Dr., Hobbs, I	NM 88240	M 88240 State C Energy Minera				tico al Resources		Form C-141 Revised October 10, 2003		
301 W. Grand <u>District III</u> 1000 Rio Brazos <u>District IV</u> 1220 S. St. Fran	Avenue, Arte 8 Road, Azte cis Dr., Santa	esia, NM 8821( c, NM 87410 a Fe, NM 8750	5	Oil ( 1220	Conse ) Sou	nservation Division outh St. Francis Dr. r Fo. NM 87505				Submit 2 Copies to appropriat District Office in accordanc with Rule 116 on back side of form	
			Rel	ease Notifi	catio	on and C	orrective A	ction	$\sim$	$\overline{}$	
					OI	PERATOR		(	🕅 Initia	al Report V Final Repo	
Name of Co	mpany C	onocoPhilli	ps Comp	any		Contact M	lickey Garner				
Address 3.	300 North	A St. Bldg	6, Midla	nd, TX 79705-:	5406	Telephone	No. 505.391.3	158			
Facility Nar	ne Wyatt	A Federal				Facility Ty	be Oil and Ga	<u>s</u>			
Surface Ow	ner State Joh	e of New Me	<del>xico</del>		Owner	BLM	IFASE		Lease No	NM108507	
Unit Letter E	Section 33	Township 17S	Range 33E	Feet from the	Nort	th/South Line	Feet from the	East/V	Vest Line	County Lea	
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			Ľ	NAT	<b>FUR</b>	E OF REL	EASE	400			
Type of Rele	ase		.,		Vo	lume of Releas	se		Volume I	Recovered	
Crude Oil	Crude Oil				21	bbl (21oil, 0w	ater)		(40il, 0wa	Hour of Discovery	
300 bbl Ste	el Tank				7-2	9-2007 02:00	Occurrence		7-29-200	7 07:30	
Was Immedia	Was Immediate Notice Given?				If	If YES, To Whom?					
		Yes 🗌 No	🛛 Not	Required	Pa	t Richards N	MOCD				
By Whom?	Mickey G	arner			Da	te and Hour 7	-29-2007 17:52		·····		
Was a Water	course Read	ched?	]Yes 🛛	No	If Y N/	YES, Volume I <b>A</b>	mpacting the Wat	tercourse	÷.		
If a Watercou N/A	irse was Im	pacted, Descr	ribe Fully.	*							
Describe Cau The source	se of Probl of discha	em and Reme rge was a h	dial Actio ole in the	n Taken.* e bottom of a 3	00 bb	l steel tank. A	A vacuum trucl	k was ca	alled out	to pick up free liquids.	
Describe Are The area af delineated a I hereby certi regulations al public health should their c	a Affected fected is a and reme fy that the ll operators or the envi operations h	and Cleanup an 1100' X diated in ac information g are required ronment. The nave failed to	Action Ta <b>10' section</b> <b>cordance</b> iven above to report a e acceptan adequately	ken.* on of prepared e with NMOCI e is true and comp nd/or file certain ce of a C-141 rep y investigate and	locati D guid plete to release ort by remedi	on pad and n elines. the best of my notifications a the NMOCD n ate contaminat	v knowledge and t nd perform corre narked as "Final R ion that pose a th	getation understar ctive acti Report" d reat to gr	n was affe	ected. The area will be suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health	
federal, state.	or local la	யவார், NMC ws and/or reg	JCD acceptions.	plance of a C-141	report	does not relie	ve the operator of	responsi	dility for c	ompliance with any other	
3		A					OIL CON	SERV	ATION	DIVISION	
Signature:		$\propto$	$\geq$		)	Approved by	ENVIR District Supervis	Ser.	$ \land \circ $		
Printed Name	: Mickey	Garner	·····					4	pl	180	
Title: HSER	Lead			<del></del>		Approval Da	te: 8.3.0	7   1	Expiration	Date: 10.3.07	
E-mail Addre	ss: Mickey	/.D.Garner@	conocoph	illips.com		Conditions of	f Approval:	_	<b>.</b> .	Attached 🗆 🔨	
Date: 7-31	2007		Phone:	505.391.3158		SUBMITT	AL OF FINAL	L C · 1	41	<b> </b>	
• Attac	h Additior	nal Sheets If	Necessar	-y		w Deca	MACTION & CI	LZANVQP	Pocun	RP# E	

### APPENDIX A Laboratory Report

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Released to Imaging: 1/26/2022 11:49:49 AM

Received by OCD: 2/12/2021 2:59:55 PM







pudekadk

Signature

Name: Sachin G. Kudchadkar

Title: Project Manager III

E-Mail: sachin.kudchadkar@testamericainc.com

(0)2010

TestAmerica Laboratories, Inc 6310 Rothway Drive Houston, TX 77040

PHONE: 713-690-4444

TOTAL NO. OF FACES



10/05/2007

Charlie Durret Tetra Tech, Inc. 1703 West Industrial Midland, TX 79701

Reference:		
Project	:	WYATT A
Project No.	:	342749
Date Received	:	09/22/2007
TestAmerica Job	:	342749

Dear Charlie Durret:

Enclosed are the analytical results for your project referenced above. The following samples are included in the report.

1	T1A 0-6	" 2 <b>.</b>	T1B	0-6"
2.	TIC 0_6		T1A	5'
		б.	T1C	5'
э.	TTP D.	. 8.	T2B	0-6"
7.	TZA 0-6		T 2 2	51
9.	T2C 0-6	" ±0. 10	T211	51
11.	T2B 5'	14.		101
13.	T3A 0-6	II 14.	T.3 B	T0.
15.	T3C 0-6	н 16.	T4 (	)-6"
17.	т4 14 ч	18.	T5 (	D-6"
10	T5 51	20.	T6 (	)-6"
	TC 101	22.	T3A	5'
41.	TO TO -	24.	T3C	51
23.	TOB LU'			-

All holding times were met for the tests performed on these samples.

Enclosed, please find the Quality Control Summary. All quality control results for the QC batch that are applicable to the sample(s) are acceptable except as noted in the QC batch reports.

The test results in this report meet all QC requirements for TestAmerica Houston's QC limits. Any exceptions to these QC requirements will be noted and included in a case narrative as a part of this report.

If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting TestAmerica to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time. We look forward to working with you on future projects.

Sincerely hadl

Sachin G. Kudchadkar Project Manager

## ANALYTICAL REPORT

JOB NUMBER: 342749 Project ID: WYATT A

Prepared For:

Tetra Tech, Inc. 1703 West Industrial Midland, TX 79701

Attention: Charlie Durret

Date: 10/05/2007

Signature

Name: Sachin G. Kudchadkar

Title: Project Manager III

E-Mail: sachin.kudchadkar@testamericainc.com

Date

TestAmerica Laboratories, Inc 6310 Rothway Drive Houston, TX 77040

PHONE: 713-690-4444

	SA	Date: 10/05/2007	ATION			
Job Number.: 3427 Customer: Tetr Attn Char	49 a Tech,Inc. lie Durret	Project Numb Customer Proj Project Desc	er 99 ject ID: Wi ription: Co	9003817 YATT A onoco Phillips	5	
Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received

240740 1			and the second se			
342/49-1	T1A 0-6"	Soil	09/20/2007	08:48	09/22/2007	09:08
342749-2	T1B 0-6"	Soil	09/20/2007	08:40	09/22/2007	09:08
342749-3	T1C 0-6"	Soil	09/20/2007	08:35	09/22/2007	09:08
342749-4	T1A 5'	Soil	09/20/2007	09:15	09/22/2007	09:08
342749-5	T1B 5'	Soil	09/20/2007	09:25	09/22/2007	09:08
342749-6	T1C 5'	Soil	09/20/2007	09:40	09/22/2007	09:08
342749-7	T2A 0-6"	Soil	09/20/2007	10:06	09/22/2007	09:08
342749-8	T2B 0-6"	Soil	09/20/2007	10:00	09/22/2007	09:08
342749-9	T2C 0-6"	Soil	09/20/2007	09:55	09/22/2007	09:08
342749-10	T2A 5'	Soil	09/20/2007	10:50	09/22/2007	09:08
342749-11	T2B 5'	Soil	09/20/2007	10:40	09/22/2007	09:08
342749-12	T2C 5'	Soil	09/20/2007	10:20	09/22/2007	09:08
342749-13	T3A 0-6"	Soil	09/20/2007	10:55	09/22/2007	09:08
342749-14	T3B 10'	Soil	09/20/2007	12:06	09/22/2007	09:08
342749-15	T3C 0-6"	Soil	09/20/2007	11:06	09/22/2007	09:08
342749-16	т4 0-6"	Soil	09/20/2007	13:00	09/22/2007	09:08
342749-17	T4 14'	Soil	09/20/2007	13:20	09/22/2007	09:08
342749-18	т5 0-6"	Soil	09/20/2007	13:37	09/22/2007	09:08
342749-19	т5 5'	Soil	09/20/2007	13:47	09/22/2007	09:08
342749-20	те о-е"	Soil	09/20/2007	14:07	09/22/2007	09:08
342749-21	T6 10'	Soil	09/20/2007	14:20	09/22/2007	09:08
342749-22	T3A 5'	Soil	09/20/2007	00:00	09/22/2007	09:08
	T3P 10!	Soil	09/20/2007	00:00	09/22/2007	09:08
342749-23	138 10					

	LABORATORY Job Number: 342749	TEST RE	SULT	S Date: 10/05/2	2007		÷,			
CUSTOMER: Tet:	ra Tech, Inc. PROJECT:	WYATT A	ATTN: Charlie Durret Laboratory Sample ID: 342749-1 Date Received: 09/22/2007 Time Received: 09:08							
Customer Date Sar Time Sar Sample M	r Sample ID: T1A 0-6" mpled: 09/20/2007 mpled: 08:48 Matrix: Soil									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECI			
EPA 120.1	Specific Conductivity @ 25 degrees C, Soil	340	1	1.0	* umhos/cm	09/26/07	sur			
3W-846 9056	Chloride, Soil	18.4		4.0	mg/Kg	09/26/07	sur			
3W-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	1730		1000.00	ug/Kg	09/26/07	cad			
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete				09/24/07	klv			
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	12		8.3	mg/Kg	09/25/07	jps			
W-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ND 6.97 ND ND		5 5 15	ug/Kg ug/Kg ug/Kg	09/24/07 09/24/07 09/24/07 09/24/07	zfl zfl zfl zfl			

- 3	LABORATORY Job Number: 342749	TEST RES	SULT	S Date: 10/05/2	2007		Ĩ.
CUSTOMER: Tet:	ra Tech, Inc. PROJECT:	: WYATT A		ATTN: Charli	e Durret		
Customer Date Sar Time Sar Sample M	r Sample ID: T1B 0-6" mpled: 09/20/2007 mpled: 08:40 Matrix: Soil			Laboratory Sampl Date Received Time Received	e ID: 3427 : 09/2 : 09:0	49-2 2/2007 8	
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
EPA 120.1	Specific Conductivity @ 25 degrees C, Soil	254	1	1.0	* umhos/cm	09/26/07	sur
SW-846 9056	Chloride, Soil	18.2	Ì.	4.0	mg/Kg	09/26/07	sur
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	     927000		250000	ug/Kg	09/26/07	cad
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete				    09/24/07	klv
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	     19000		2500	mg/Kg	  09/26/07	jps
SW-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ND 14400 3570 24000		20 600 600 1900	ug/Kg ug/Kg ug/Kg ug/Kg	09/24/07 09/26/07 09/26/07 09/26/07	zfl ydy ydy ydy

- 3	LABORAT Job Number: 342749	ORY TEST RE	SULT	S Date: 10/05/2	:007				
CUSTOMER: Tet:	ra Tech, Inc. PRO	JECT: WYATT A		ATTN: Charlie Durret					
Custome: Date Sar Time Sar Sample 1	r Sample ID: T1C 0-6" mpled: 09/20/2007 mpled: 08:35 Matrix: Soil			Laboratory Sampl Date Received Time Received	e ID: 3427 : 09/2 : 09:0	49-3 2/2007 8			
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH		
EPA 120.1	Specific Conductivity @ 25 degrees C, S	oil 140	Ì	1.0	* umhos/cm	09/26/07	sur		
SW-846 9056	Chloride, Soil	8.33	Î.	4.0	mg/Kg	09/26/07	sur		
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	1130		1000.00	ug/Kg	      09/26/07	cad		
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	  Complete				    09/24/07	klv		
SW-846 8015B	Total Extractable Petroleum Hydrocarbon TEPH - as Diesel, Soil	s I I ND	1	8.3	mg/Kg	09/25/07	jps		
SW-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ND ND ND ND		5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg	09/24/07 09/24/07 09/24/07 09/24/07	zfl zfl zfl zfl		

CUSTOMER: Tet:	ra Tech, Inc. PROJECT: 1	WYATT A		ATTN: Charli	le Durret		
Custome: Date Sar Time Sar Sample 1	r Sample ID: T1A 5' mpled: 09/20/2007 mpled: 09:15 Matrix: Soil			Laboratory Sampl Date Received Time Received	Le ID: 34274 : 09/23 : 09:00	49-4 2/2007 8	
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
PA300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	6.10		0.50	mg/L	    09/25/07	         
SW-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP Specific Conductivity @ 25 degrees ( Soil	ND ND ND ND 639		5 5 5 15	ug/L ug/L ug/L ug/L	09/25/07 09/25/07 09/25/07 09/25/07 09/25/07	ydy ydy ydy ydy
SW-846 9056	Chloride, Soil	1 134	ł	4.0	mg/Kg	09/26/07	sur
SW-846 8015B	   Total Volatile Petroleum Hydrocarbons   TVPH as GRO, Soil	I I I ND		1000.00	ug/Kg	09/25/07	    cad
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete	ł.			09/24/07	klv
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	24	1	8.3	mg/Kg	09/25/07	jps
SW-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ND ND ND		   5   5   5	ug/Kg ug/Kg ug/Kg ug/Kg	09/24/07 09/24/07 09/24/07 09/24/07	zfl zfl zfl zfl
SW-846 1312	Zero Head Space (ZHE) Extraction, Solid	Complete			mL	09/24/07	wkc

CUSTOMER: Tet:	ra Tech, Inc. PROJECT: 1	WYATT A		ATTN: Charli	ie Durret		
Customer Sample ID: T1B 5'Laboratory Sample ID: 342749-5Date Sampled: 09/20/2007Date Received: 09/22/2007Time Sampled: 09:25Time Received: 09:08Sample Matrix: SoilSample Matrix: 09:08							
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
1PA300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	5.79		0.50	mg/L	    09/25/07	         
SW-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP Specific Conductivity @ 25 degrees C. Soil	ND ND ND ND ND 721		5 5 5 15	ug/L ug/L ug/L ug/L	09/25/07 09/25/07 09/25/07 09/25/07 09/25/07	ydy ydy ydy ydy
SW-846 9056	Chloride, Soil	149	ł	4.0	mg/Kg	09/26/07	sur
SW-846 8015B	  Total Volatile Petroleum Hydrocarbons  TVPH as GRO, Soil	I I I ND		1000.00	ug/Kg	      09/25/07	    cad
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete	1			    09/24/07	klv
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	ND	1	8.3	mg/Kg	09/26/07	jps
SW-846 8260B SW-846 1312	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil Zero Head Space (ZHE) Extraction, Solid	ND ND ND Complete		5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg mL	09/24/07 09/24/07 09/24/07 09/24/07 09/24/07	zfl zfl zfl zfl wkc

CUSTOMER: Tet:	ra Tech, Inc. PROJE	CT: WYATT A		ATTN: Charli	le Durret		
Custome: Date Sar Time Sar Sample M	r Sample ID: T1C 5' mpled: 09/20/2007 mpled: 09:40 Matrix: Soil			Laboratory Sampl Date Received Time Received	Le ID: 3427 : 09/2 : 09:0	49-6 2/2007 8	
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
PA300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	2.03		0.50	mg/L	    09/25/07	sur
SW-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP	ND I ND I ND I ND I ND		5 5 5 15	ug/L ug/L ug/L ug/L	09/25/07 09/25/07 09/25/07 09/25/07	ydy ydy ydy ydy
SW-846 9056	Chloride, Soil	27.5	1	4.0	* umnos/cm mg/Kg	09/26/07	sur
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	I I I ND		1000.00	ug/Kg	09/25/07	cad
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete	1			  09/24/07	klv
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	110	1	8.3	mg/Kg	09/26/07	jps
SW-846 8260B SW-846 1312	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil Zero Head Space (ZHE) Extraction, Solid	ND ND ND ND Complete		5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg mL	09/24/07 09/24/07 09/24/07 09/24/07 09/24/07	zfl zfl zfl zfl wkc

- 3	Job Number: 342749	TEST RE:	SULT	S Date: 10/05/2	007		Ĩ,
CUSTOMER: Tet:	ra Tech, Inc. PROJECT:	WYATT A		ATTN: Charli	e Durret		
Customer Sample ID: T2A 0-6"Laboratory Sample ID: 342749-7Date Sampled: 09/20/2007Date Received: 09/22/2007Time Sampled: 10:06Time Received: 09:08Sample Matrix: SoilSample Matrix: 09:08							
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
EPA 120.1	Specific Conductivity @ 25 degrees C, Soil	154	1	1.0	* umhos/cm	09/26/07	sur
SW-846 9056	Chloride, Soil	7.73	Ì.	4.0	mg/Kg	09/26/07	sur
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	I ND		1000.00	ug/Kg	      09/25/07	cad
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete				09/25/07	mra
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	1 19	1	8.3	mg/Kg	  09/26/07	jps
SW-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ND ND ND ND		5 5 15	ug/Kg ug/Kg ug/Kg	09/24/07 09/24/07 09/24/07 09/24/07	zfl zfl zfl zfl

- 3	LABORATORY Job Number: 342749	TEST RE	SULT	S Date: 10/05/2	2007		ł.
CUSTOMER: Tet:	ra Tech, Inc. PROJECT:	WYATT A		ATTN: Charli	le Durret		
Customer Sample ID: T2B 0-6"Laboratory Sample ID: 342749-8Date Sampled: 09/20/2007Date Received: 09/22/2007Time Sampled: 10:00Time Received: 09:08Sample Matrix: SoilSample Matrix: 09:08							
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TEC
EPA 120.1	Specific Conductivity @ 25 degrees C, Soil	186	1	1.0	* umhos/cm	09/26/07	sur
SW-846 9056	Chloride, Soil	10.2	1	4.0	mg/Kg	09/26/07	sur
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	40100		10000.0	ug/Kg	      09/25/07	cad
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete				    09/25/07	mra
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	1 4000		500	mg/Kg	09/26/07	jps
W-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ND 9.90 7.17 19.9		5 5 15	ug/Kg ug/Kg ug/Kg	09/25/07 09/25/07 09/25/07 09/25/07	 zfl zfl zfl zfl   zfl       

Job Number: 342749 LABORATORY TEST RESULTS Date: 10/05/2007									
CUSTOMER: Tet:	ra Tech, Inc. PROJECT:	WYATT A		ATTN: Charli	e Durret				
Customer Sample ID: T2C 0-6"Laboratory Sample ID: 342749-9Date Sampled: 09/20/2007Date Received: 09/22/2007Time Sampled: 09:55Time Received: 09:08Sample Matrix: SoilSample Matrix: 09:08									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH		
EPA 120.1	Specific Conductivity @ 25 degrees C, Soil	116	Ì	1.0	* umhos/cm	09/26/07	sur		
SW-846 9056	Chloride, Soil	7.54	Î.	4.0	mg/Kg	09/26/07	sur		
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	I ND		1000.00	ug/Kg	      09/25/07	cad		
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete				    09/25/07	mra		
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	1 1 260		41	mg/Kg	  09/27/07	jps		
3W-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	I ND ND ND ND		5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg	09/24/07 09/24/07 09/24/07 09/24/07	zfl zfl zfl zfl		

CUSTOMER: Tetr	ra Tech, Inc. PROJECT: V	VYATT A		ATTN: Charli	le Durret		
Customer Date San Time San Sample M	c Sample ID: T2A 5' mpled: 09/20/2007 mpled: 10:50 Matrix: Soil			Laboratory Sampl Date Received Time Received	le ID: 34274 : 09/22 : 09:08	49-10 2/2007 8	
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
PA300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	11.3		0.50	mg/L	09/26/07	sur
SW-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP	ND ND ND ND		5 5 5 15	ug/L ug/L ug/L ug/L	09/25/07 09/25/07 09/25/07 09/25/07	ydy ydy ydy ydy
EPA 120.1 SW-846 9056	Specific Conductivity @ 25 degrees C, Soil	1450 275	i.	1.0	* umhos/cm mg/Kg	09/26/07	sur
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	I I I ND		1000.00	ug/Kg	09/25/07	       cad
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete	ł.			    09/24/07	klv
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	I ND		8.3	mg/Kg	  09/26/07	jps
SW-846 8260B SW-846 1312	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil Zero Head Space (ZHE) Extraction, Solid	ND ND ND ND Complete		5 5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg mL	09/24/07 09/24/07 09/24/07 09/24/07 09/24/07	zfl zfl zfl zfl wkc

CUSTOMER: Tet:	ra Tech, Inc. PROJECT: 1	WYATT A		ATTN: Charl	ie Durret				
Customer Sample ID: T2B 5' Laboratory Sample ID: 342749-11   Date Sampled: 09/20/2007 Date Received: 09/22/2007   Time Sampled: 10:40 Time Received: 09:08   Sample Matrix: Soil 09:08									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TEC		
1PA300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	9.66		0.50	mg/L	    09/26/07	sur		
SW-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP Specific Conductivity @ 25 degrees C. Soil	ND ND ND ND		5 5 5 15	ug/L ug/L ug/L ug/L ug/L	09/25/07 09/25/07 09/25/07 09/25/07 09/25/07	ydy ydy ydy ydy		
SW-846 9056	Chloride, Soil	221		4.0	mg/Kg	09/26/07	sur		
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	I I I ND		1000.00	ug/Kg	      09/25/07	    cad		
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete	ł			09/24/07	klv		
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	13	1	8.3	mg/Kg	09/25/07	jps		
SW-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ND ND ND ND		5 5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg	09/24/07 09/24/07 09/24/07 09/24/07	zfl zfl zfl zfl		
SW-846 1312	Zero Head Space (ZHE) Extraction, Solid	Complete			mL	09/24/07	wkc		

CODICIEN. ICC.	ra Tech, Inc. PROJECT	: WYATT A		ATTN: Charl	ie Durret		
Custome: Date Sar Time Sar Sample M	c Sample ID: T2C 5' mpled: 09/20/2007 mpled: 10:20 Matrix: Soil			Laboratory Sampl Date Received Time Received	le ID: 34274 : 09/2 : 09:08	49-12 2/2007 8	
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
PA300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	3.28		0.50	mg/L	    09/26/07	sur
SW-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP	I ND I ND I ND I ND I ND		5 5 5 15	ug/L ug/L ug/L ug/L ug/L	09/25/07 09/25/07 09/25/07 09/25/07	ydy ydy ydy ydy
EPA 120.1	Specific Conductivity @ 25 degrees C, Soil	762		1.0	* umhos/cm	09/26/07	sur
SW-846 9056		07.9	1	4.0	ng/kg	09/28/07	sur
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	I I ND	ł	1000.00	ug/Kg	09/25/07	cad
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete				    09/24/07	klv
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	I I ND		8.3	mg/Kg	    09/26/07	jps
SW-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil Zero Head Space (ZEE) Extraction Solid	   ND   ND   ND   ND   Complete		5 5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	09/24/07 09/24/07 09/24/07 09/24/07 09/24/07	zfl zfl zfl zfl
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	Job Number: 342749	TEST RE:	SULT	S Date: 10/05/2	007		í,
CUSTOMER: Tet:	ra Tech, Inc. PROJECT:	WYATT A		ATTN: Charli	e Durret		
Customer Sample ID: T3A 0-6"Laboratory Sample ID: 342749-13Date Sampled: 09/20/2007Date Received: 09/22/2007Time Sampled: 10:55Time Received: 09:08Sample Matrix: SoilSample Matrix: Soil							
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
EPA 120.1	Specific Conductivity @ 25 degrees C, Soil	492	İ	1.0	* umhos/cm	09/26/07	sur
SW-846 9056	Chloride, Soil	29.2	Ì.	4.0	mg/Kg	09/26/07	sur
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	I I I ND		1000.00	ug/Kg	      09/26/07 	cad
SW-846 3550B	Ultrasonic Extraction, Soil	Complete	Ì.			09/25/07	mra
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	1400		830	mg/Kg	09/26/07	jps
SW-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	I ND ND ND ND		5 5 15	ug/Kg ug/Kg ug/Kg	09/24/07 09/24/07 09/24/07 09/24/07	 zfl zfl zfl zfl   zfl   l             

CUSTOMER: Tet:	ra Tech, Inc. PROJECT: 1	WYATT A		ATTN: Charl	ie Durret			
Customer Sample ID: T3B 10'Laboratory Sample ID: 342749-14Date Sampled: 09/20/2007Date Received: 09/22/2007Time Sampled: 12:06Time Received: 09:08Sample Matrix: SoilSample Matrix: 09:08								
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH	
PA300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	5.31		0.50	mg/L	    09/26/07 	         	
SW-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP Specific Conductivity @ 25 degrees C, Soil	ND 32.7 11.1 65.1 1030		5 5 5 1 15 1.0	ug/L ug/L ug/L ug/L * umhos/cm	09/26/07 09/26/07 09/26/07 09/26/07 09/26/07	ydy ydy ydy ydy sur	
SW-846 9056	Chloride, Soil	152	ł	4.0	mg/Kg	09/26/07	sur	
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	     714000		250000	ug/Kg	      09/27/07	    cad	
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete	1			    09/24/07	klv	
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	15000	1	2500	mg/Kg	09/26/07	jps	
SW-846 8260B SW-846 1312	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil Zero Head Space (ZHE) Extraction, Solid	ND 14100 2620 26400 Complete		20 600 600 1900	ug/Kg ug/Kg ug/Kg ug/Kg mL	09/24/07 09/26/07 09/26/07 09/26/07 09/25/07	zfl ydy ydy ydy wkc	
	LABORATO: Job Number: 342749	RY TEST RE	SULT	S Date: 10/05/2	2007		i,	
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CUSTOMER: Tet:	ra Tech, Inc. PROJE	CT: WYATT A		ATIN: Charl	ie Durret			
Custome: Date Sar Time Sar Sample M	r Sample ID: T3C 0-6" mpled: 09/20/2007 mpled: 11:06 Matrix: Soil			Laboratory Sampl Date Received Time Received	Le ID: 3427 : 09/2 : 09:0	49-15 2/2007 8		
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH	
EPA 120.1	Specific Conductivity @ 25 degrees C, Soi	1 194	1	1.0	* umhos/cm	09/26/07	sur	
5W-846 9056	Chloride, Soil	9.30	Î	4.0	mg/Kg	09/26/07	sur	
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	I ND		1000.00	ug/Kg	09/27/07	cad	
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete				09/25/07	mra	
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	1 12		8.3	mg/Kg	09/26/07	jps	
SW-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ND ND ND ND		5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg	09/24/07 09/24/07 09/24/07 09/24/07	zfl zfl zfl zfl zfl	

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ra Tech, Inc.	PROJECT: 1	WYATT A		ATIN: Charli	e Durret		_
r Sample ID: T4 0-6" mpled: 09/20/2007 mpled: 13:00 Matrix: Soil				Laboratory Sampl Date Received Time Received	e ID: 3427 : 09/2 : 09:0	49–16 2/2007 8	
PARAMETER/TES	T DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TEC
Specific Conductivity @	25 degrees C, Soil	2890		1.0	* umhos/cm	09/26/07	sur
Chloride, Soil		285	1	40	mg/Kg	09/26/07	sur
Total Volatile Petroleum TVPH as GRO, Soil	m Hydrocarbons	1800000		250000	ug/Kg	09/27/07	cad
Extraction (Ultrasonic) Ultrasonic Extraction,	DRO Soil	Complete				09/25/07	mra
Total Extractable Petro TEPH - as Diesel, Soil	leum Hydrocarbons	27000		3300	mg/Kg	09/27/07	jps
Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil		   ND   49900   11300   89400		20 6000 600 19000	ug/Kg ug/Kg ug/Kg ug/Kg	09/25/07 09/27/07 09/26/07 09/27/07	zfl ydy ydy ydy
							1
							1   
	ra Tech, Inc. c Sample ID: T4 0-6" mpled: 09/20/2007 mpled: Soil PARAMETER/TES Specific Conductivity @ Chloride, Soil Total Volatile Petroleur TVPH as GRO, Soil Extraction (Ultrasonic) Ultrasonic Extraction, Total Extractable Petro TEPH - as Diesel, Soil Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ra Tech, Inc. PROJECT: c Sample ID: T4 0-6" mpled: 09/20/2007 mpled: 13:00 4atrix: Soil PARAMETER/TEST DESCRIPTION Specific Conductivity @ 25 degrees C, Soil Chloride, Soil Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil Volatile Organics Benzene, Soil Toluene, Soil Toluene, Soil Xylenes (total), Soil	ra Tech, Inc. FROJECT: WYATT A  r Sample ID: T4 0-6" mpled: 09/20/2007 mpled: 13:00 fatrix: Soil  FARAMETER/TEST DESCRIPTION SAMPLE RESULT Specific Conductivity 0 25 degrees C, Soil 2890 Chloride, Soil 285 Total Volatile Petroleum Hydrocarbons TVFH as GRO, Soil 1800000 Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil Complete Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil 27000 Volatile Organics Benzene, Soil 1300 Ethylbenzene, Soil 1300 Xylenes (total), Soil 89400	ra Tech, Inc. PROJECT: WYATT A	ra Tech, Inc.       FROJECT: WYATT A       ATTN: Charli         : Sample ID: T4 0-6"       Laboratory Sampled: 13:00       Date Received         fartx: Soil       Date Received       Time Received         fartx: Soil       SAMPLE RESULT       FLAGS       REPORTING LIMIT         Specific Conductivity @ 25 degrees C, Soil       2890       1.0       Chloride, Soil       40         Total Volatile Petroleum Hydrocarbons       1800000       250000       Extraction (Ultrasonic) DRO       20000         Ultrasonic Extraction, Soil       Complete       3300       Volatile Cognics       20         EEH - as Dissel, Soil       ND       20       6000       6000         Toluene, Soil       11300       6000       19000       19000	a Tech, Inc. FROJECT: WANT A ATTN: Charlie Durret : Sample ID: T4 0-6" mpled: 09/20/2007 mpled: 13:00 fatrix: Soil            PARAMETER/TEST DESCRIPTION         SAMPLE RESULT         FLASS         REPORTING LIMIT         UNITS           Specific Conductivity @ 25 degrees C, Soil         2890         1.0         * unhos/cm           Chloride, Soil         285         40         mg/Kg           Total Volatile Fetroleum Hydrocarbons         1800000         250000         ug/Kg           Extraction (Ultrasonic) DRO         Complete         3300         mg/Kg           Total Extractable Petroleum Hydrocarbons         27000         3300         mg/Kg           Wolatile Creanic         Soil         49900         6000         ug/Kg           Sthylenes, Soil         11300         6000         ug/Kg         49900         19000         ug/Kg           Xylenes (total), Soil         89400         19000         ug/Kg         19000         ug/Kg	a Tech, Inc. PROJECT: WANT A ATTN: Charlie Durret  Sample ID: T4 0-6" mpled: 09/20/2007 mpled: 13:00  EXTAX: Soil   PRAMMETER/TEST DESCRIPTION SAMPLE RESULT FLACS REPORTING LIMIT UNITS DATE  Specific Conductivity @ 25 degrees C, Soil 2890 1.0 * unhos/cm 09/26/07 Chloride, Soil 285 40 mg/kg 09/26/07 Total Volatile Petroleum Hydrocarbons TEH - as Diseel, Soil 000 250000 ug/kg 09/27/07 Volatile Organics Bename, Soil 11300 6000 ug/kg 09/27/07 Volatile Organics Bename, Soil 11300 19000 ug/kg 09/27/07 Volatile Organics Bename, Soil 10000 19000 ug/kg 09/27/07 Volatile Organics Bename, Soil 10000 19000 Ug/kg 09/27/07 Volatile Organics Bename, S

CUSTOMER: Tet:	ra Tech, Inc. PROJECT:	WYATT A		ATTN: Charli	le Durret		
Custome: Date Sar Time Sar Sample 1	r Sample ID: T4 14' mpled: 09/20/2007 mpled: 13:20 Matrix: Soil			Laboratory Sampl Date Received Time Received	Le ID: 3427 : 09/2 : 09:00	49-17 2/2007 8	
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TEC
PA300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	56.3		5.0	mg/L	    09/26/07	    sur
SW-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP Specific Conductivity & 25 degrees C. Soil	ND ND ND 25.6 4390		5 5 5 15	ug/L ug/L ug/L ug/L	10/03/07 10/03/07 10/03/07 10/03/07 10/03/07	ydy ydy ydy ydy
SW-846 9056	Chloride, Soil	1310	1	40	mg/Kg	09/26/07	sur
SW-846 8015B	  Total Volatile Petroleum Hydrocarbons  TVPH as GRO, Soil	757000		     250000	ug/Kg	      09/27/07	     cad
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete	£1			  09/24/07	klv
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	6500	1	830	mg/Kg	09/26/07	jps
SW-846 8260B SW-846 1312	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil Zero Head Space (ZHE) Extraction, Solid	ND ND ND Complete		5 5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg mL	09/24/07 09/24/07 09/24/07 09/24/07 10/02/07	zfl zfl zfl zfl zfl wkc

- 3	LABORATORY Job Number: 342749	TEST RES	SULT	S Date: 10/05/:	2007		÷,
CUSTOMER: Tet:	ra Tech, Inc. PROJECT:	WYATT A		ATTN: Charl	ie Durret		
Customer Date Sar Time Sar Sample M	r Sample ID: T5 0-6" mpled: 09/20/2007 mpled: 13:37 Matrix: Soil			49–18 2/2007 8			
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TEC
EPA 120.1	Specific Conductivity @ 25 degrees C, Soil	462	1	1.0	* umhos/cm	09/26/07	sur
SW-846 9056	Chloride, Soil	58.8	l i	4.0	mg/Kg	09/26/07	sur
3W-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	3530		1000.00	ug/Kg	09/27/07	cad
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete				09/25/07	mra
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	540	Î Î	210	mg/Kg	09/27/07	jps
₩ <b>-</b> 846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	ND ND ND ND		5 5 15	ug/Kg ug/Kg ug/Kg	09/24/07 09/24/07 09/24/07 09/24/07	zfl zfl zfl zfl

CUSTOMER: Tet:	ra Tech, Inc. PROJECT:	WYATT A		ATTN: Charli	ie Durret		
Custome: Date Sar Time Sar Sample M	c Sample ID: T5 5' mpled: 09/20/2007 mpled: 13:47 4atrix: Soil			Laboratory Sampl Date Received Time Received	Le ID: 3427 : 09/2 : 09:00	49-19 2/2007 8	
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TEC
PA300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	47.4		0.50	mg/L	    09/26/07 	       sur
SW-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP Specific Conductivity 0.25 degrees C. Seil	ND ND ND ND ND 2250		5 5 5 15	ug/L ug/L ug/L ug/L	09/26/07 09/26/07 09/26/07 09/26/07 09/26/07	ydy ydy ydy ydy
SW-846 9056	Chloride, Soil	3250   1110	1	40	mg/Kg	09/26/07	sur
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	I I I ND		1000.00	ug/Kg	      09/26/07	i    cad
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete	1			  09/24/07	klv
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	I ND	1	8.3	mg/Kg	09/25/07	jps
SW-846 8260B SW-846 1312	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil Zero Head Space (ZHE) Extraction, Solid	ND ND ND ND Complete		5 5 1 15	ug/Kg ug/Kg ug/Kg ug/Kg mL	  09/24/07  09/24/07  09/24/07  09/24/07  09/25/07 	zfl zfl zfl zfl wkc

	000 Hulber, 542/42			Date: 10/03/2			
CUSTOMER: Tet:	ra Tech, Inc. PROJE	CT: WYATT A		ATTN: Charli	e Durret		
Custome Date Sa Time Sa Sample I	r Sample ID: T6 0-6" mpled: 09/20/2007 mpled: 14:07 Matrix: Soil			Laboratory Sampl Date Received Time Received	e ID: 3427 : 09/2 : 09:0	49-20 2/2007 8	
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
EPA 120.1	Specific Conductivity @ 25 degrees C, Soi	1 2300	1	1.0	* umhos/cm	09/26/07	sur
W-846 9056	Chloride, Soil	726	Ì.	40	mg/Kg	09/26/07	sur
₩-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	1120000		250000	ug/Kg	         09/27/07	cad
W-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete				    09/25/07	  mra
W-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	1 11000		830	mg/Kg	  09/26/07	jps
W-846 8260B	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil	481 13000 8880 36200		20 600 600 1900	ug/Kg ug/Kg ug/Kg ug/Kg	09/25/07 09/26/07 09/26/07 09/26/07	zfl ydy ydy ydy ydy

CUSTOMER: Tetr	ra Tech, Inc. PROJEC	T: WYATT A		ATTN: Charli	ie Durret		
Customer Date San Time San Sample M	c Sample ID: T6 10' mpled: 09/20/2007 mpled: 14:20 fatrix: Soil			Laboratory Sampl Date Received Time Received	Le ID: 3427 : 09/2 : 09:00	49-21 2/2007 8	
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
PA300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	21.9		0.50	mg/L	09/26/07	sur
SW-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP	ND ND ND ND ND		5 5 5 15	ug/L ug/L ug/L ug/L	09/26/07 09/26/07 09/26/07 09/26/07	ydy ydy ydy ydy
EPA 120.1 SW-846 9056	Chloride, Soil	491	l.	40	* umnos/cm mg/Kg	09/26/07	sur
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	I I ND		1000.00	ug/Kg	09/26/07	cad
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete	Î.			09/24/07	klv
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	63		8.3	mg/Kg	09/26/07	jps
SW-846 8260B SW-846 1312	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil Zero Head Space (ZHE) Extraction, Solid	ND ND ND ND Complete		5   5   5   15 	ug/Kg ug/Kg ug/Kg ug/Kg mL	09/25/07 09/25/07 09/25/07 09/25/07 09/25/07	zfl zfl zfl zfl wkc

CUSTOMER: Tet:	ra Tech, Inc. PROJECT: 1	WYATT A		ATTN: Charli	e Durret		
Customer Date San Time San Sample M	r Sample ID: T3A 5' mpled: 09/20/2007 mpled: 00:00 Matrix: Soil			49-22 2/2007 8			
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECI
PA300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	156		5.0	mg/L	    09/26/07	       sur
SW-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP	I ND I ND I ND I ND		5 5 5 15	ug/L ug/L ug/L ug/L	09/26/07 09/26/07 09/26/07 09/26/07	ydy ydy ydy ydy
SW-846 9056	Chloride, Soil	1 3750	ł	40	mg/Kg	09/26/07	sur
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	     ND		1000.00	ug/Kg	      09/26/07	    cad
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete	1			    09/24/07	klv
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	600		83	mg/Kg	    09/26/07	jps
SW-846 8260B SW-846 1312	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil Zero Head Space (ZHE) Extraction, Solid	   ND   ND   ND   ND   Complete		5 5 5 15	ug/Kg ug/Kg ug/Kg mL	09/25/07 09/25/07 09/25/07 09/25/07 09/25/07	zfl zfl zfl zfl wkc

CUSTOMER: Tet:	ra Tech, Inc. PROJECT: 1	WYATT A		ATTN: Charli	ie Durret		
Customer Date San Time San Sample M	r Sample ID: T3B 10' mpled: 09/20/2007 mpled: 00:00 Matrix: Soil			Laboratory Sampl Date Received Time Received	Le ID: 3427 : 09/2 : 09:00	49-23 2/2007 8	
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECH
PA300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	75.8		5.0	mg/L	    09/26/07	sur
SW-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP	I ND I ND I ND I ND		5 5 5 15	ug/L ug/L ug/L ug/L	09/26/07 09/26/07 09/26/07 09/26/07	ydy ydy ydy ydy
SW-846 9056	Chloride, Soil	1 1570	ł	40	mg/Kg	09/26/07	sur
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	I I I ND		1000.00	ug/Kg	09/26/07	    cad
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete	Ì			09/24/07	klv
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	31		8.3	mg/Kg	    09/26/07	jps
SW-846 8260B SW-846 1312	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil Zero Head Space (ZHE) Extraction, Solid	ND ND ND ND Complete		5 5 1 15	ug/Kg ug/Kg ug/Kg ug/Kg mL	09/25/07 09/25/07 09/25/07 09/25/07 09/25/07	zfl zfl zfl zfl wkc

CUSTOMER: Tet:	ra Tech, Inc. PROJECT:	WYATT A		ATTN: Charli	e Durret		
Customer Date San Time San Sample M	c Sample ID: T3C 5' mpled: 09/20/2007 mpled: 00:00 fatrix: Soil		Laboratory Sampl Date Received Time Received	e ID: 3427 : 09/2 : 09:00	49-24 2/2007 8		
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	DATE	TECI
PA300.0 REV2.	Ion Chromatography Analysis Chloride, SPLP	59.5		5.0	mg/L	09/26/07	       sur
SW-846 8260B	Volatile Organics Benzene, SPLP Ethylbenzene, SPLP Toluene, SPLP Xylenes (total), SPLP	ND ND ND ND		5 5 5 15	ug/L ug/L ug/L ug/L	09/26/07 09/26/07 09/26/07 09/26/07	ydy ydy ydy ydy
SW-846 9056	Chloride, Soil	4050     1510	1	40	* umnos/cm mg/Kg	09/26/07	sur
SW-846 8015B	Total Volatile Petroleum Hydrocarbons TVPH as GRO, Soil	ND		1000.00	ug/Kg	09/27/07	    cad
SW-846 3550B	Extraction (Ultrasonic) DRO Ultrasonic Extraction, Soil	Complete	ł.			  09/24/07	klv
SW-846 8015B	Total Extractable Petroleum Hydrocarbons TEPH - as Diesel, Soil	ND	1	8.3	mg/Kg	  09/26/07	jps
SW-846 8260B SW-846 1312	Volatile Organics Benzene, Soil Ethylbenzene, Soil Toluene, Soil Xylenes (total), Soil Zero Head Space (ZHE) Extraction, Solid	ND ND ND ND Complete		5 5 15	ug/Kg ug/Kg ug/Kg ug/Kg mL	09/25/07 09/25/07 09/25/07 09/25/07 09/25/07	zfl zfl zfl zfl wkc

QUALITY CONTROL RESULTS Job Number.: 342749

Report Date .: 10/05/2007

CUSTOMER: Tetra Tech, Inc.

PROJECT: WYATT A

ATTN: Charlie Durret

Te Me Pa	st Method thod Descrip rameter	: SW- ption.: Ion Chl	846 9056 Chromatography oride	Analysis	Units Batch(s)	: 186137	g/L	Analyst Test Co	xde.: CHL	
QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits H	. Date	Time
ICV ICB	18613721	WCS46501	18.9739 0.0163 0.0102		20.00		94.9	90.0-110.	09/25/2007	7 1902 7 1925 7 1947
LCS	18613721 342735-1	WCS46501	19.3131 3.3970		20.00	3.3562	96.6 1.2	90.0-110. 20	09/25/2007	7 2010
MS CCV	342735-1	WCS46233 WCS46501	12.6951 19.5329		10.000000 20.00	3.3562	93.4 97.7	90-110 90.0-110.	09/25/2007	7 2140
CCV CCB	18613721	WCS46501	19.6673 0.0172		20.00		98.3	90.0-110.	09/26/2007	7 0403
LCS	18613721 342749-14	WCS46501	19.6965 1.1236		20.00	1.1288	98.5 0.0052	90.0-110. 0.5000	09/26/2007 09/26/2007	7 0510 7 0810
CCV CCB		WCS46501	19.7207 0.0216		20.00		98.6	90.0-110.	09/26/2007 09/26/2007	7 0833 7 0855
MS DU	342749-14 342749-17	WCS46233	10.8806 13.1438		10.000000	1.1288 13.1128	97.5 0.2	90-110 20	09/26/2007 09/26/2007	7 0918 7 1110
MS CCV	342749-17	WCS46233 WCS46501	22.3670 20.0240 0.0175		10.000000 20.00	13.1128	92.5 100.1	90-110 90.0-110.	09/26/2007	7 1133 7 1303 7 1325
CCV		WCS46501	19.9552 0.0162		20.00		99.8	90.0-110.	09/26/2007 09/26/2007	7 1518 7 1540

Test Method.....: EPA 120.1 Method Description: Specific Conductance @ 25 degrees C Parameter.....: Specific Conductivity @ 25 degrees C Batch(s)...: 186141 Analyst...: sur Test Code.: COND

QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result *	Limits F	Date	Time
LCS	18614121	WC3926	10.11		10		101.1	90.0-110.	09/26/2007	1720
CCV		WC3910	107.0		100		107.0	90.0-110.	09/26/2007	1720
CCV		WC3753	1012		1000		101.2	90.0-110.	09/26/2007	1720
DU	342735-1		1647			1650	0.2	20	09/26/2007	1720
CCV		WC3910	106.5		100		106.5	90.0-110.	09/26/2007	1720
CCB			0.19						09/26/2007	1720
MB	18614121		0.20						09/26/2007	1720
DU	342749-10		1448			1450	0.1	20	09/26/2007	1720
CCB			0.20						09/26/2007	1720
CCV		WC3753	1007		1000		100.7	90.0-110.	09/26/2007	1720
CCB			0.21						09/26/2007	1720
MB	18614121		0.23						09/26/2007	1720
LCS	18614121	WC3926	10.07		10		100.7	90.0-110.	09/26/2007	1720
DU	342749-24		4030			4050	0.5	20	09/26/2007	1720
CCV		WC3910	106.7		100		106.7	90.0-110.	09/26/2007	1720
CCB			0.21						09/26/2007	1720
DU	342481-7		26300			26400	0.4	20	09/26/2007	1720
CCV		WC3753	1005		1000		100.5	90.0-110.	09/26/2007	1720

Page 26 \* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

49.0-151.0

	Job Number.: 342749	QUALITY	CONTRO	L R	ESULT	S	Report	Date.: 10/0	05/2007
CUSTOMER:	: Tetra Tech,Inc.	PROJ	ECT: WYATT A				ATTN:	Charlie Durn	ret
QC Type	Description	1	Reag. Cod	e	Lab	ID	Dilut	tion Factor	Date Time
Test Meth Method De	hod: SW-846 8015B escription.: Total Volatile Pe	etroleum Hydrocar	Units bons Batch(s	····· ) :	: ug 186215	I/L		Analys	st: cad
LCS	Laboratory Control Sample	3	BXS091907F		186215-1				09/25/2007 1622
Pa	arameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	t * Limits F
IVPH as GRO	D, Soil	221.815		-	250.000000	)		88.7	49-151
LCS	Laboratory Control Sample	2	BXS091907F		186215-2				09/26/2007 1330
Pa	arameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	t * Limits E
IVPH as GRO	D, Soil	272.528		- 3	250.000000			109.0	49-151
MB	Method Blank		T		186215-1				09/25/2007 1726
Pa	arameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	t * Limits F
IVPH as GRO	D, Soil	ND				+		-	
MB	Method Blank				186215-2				09/26/2007 1436
Pa	arameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	t * Limits F
IVPH as GRO	D, Soil	11.3189		-					
MS	Matrix Spike		BX051707A		342749-6	1			09/25/2007 2017
Pa	arameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	t * Limits F
IVPH as GRO	D, Soil	261.319			250.000000	1	0.8231	100.2	50.0-150.0
MSD	Matrix Spike Duplicate		BX051707A		342749-6	i.	-		09/25/2007 2042
Pa	arameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	.t * Limits B
TVPH as GRO	D, Soil	257.929	261.319		250.000000	1	0.8231	98.8 1.3	50-150 20
SB	Spiked Blank		BX051707A		186215-2				09/26/2007 1934
Pa	arameter/Test Description	OC Result	OC Result	True	e Value	Orig.	Value	Calc. Resul	t * Limits F

310.357

TVPH as GRO, Soil

Page 27 \* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

11.3189

120

250.000000

	Job Number.: 342749	QUALITY	CONTRO	L RES	SULTS	Repor	t Date.: 10/(	05/2007	
CUSTOMER:	Tetra Tech,Inc.	PROJ	ECT: WYATT A	2.12		ATTN:			
QC Type	Description	1	Reag. Coo	de	Lab ID	Dilu	tion Factor	Date	Time
SBD	Spiked Blank Duplicate		BX051707A	18	86215-2			09/26/2007	1958
Par	ameter/Test Description	QC Result	QC Result	True Va	alue Or	rig. Value	Calc. Resul	lt * Limit	s F
TVPH as GRO,	Soil	277.364	310.357	250.	.000000	11.3189	106.4 11.2	49-1 20	51
Test Metho Method Des	d: EPA300.0 REV2.1 cription.: Ion Chromatograph	ny Analysis	Units. Batch(s	s): 180	: mg/L 6078 18611	2	Analys	st: sur	
CCB	Continuing Calibration Bl	ank						09/25/2007	1716
Par	ameter/Test Description	QC Result	QC Result	True Va	alue Or	ig. Value	Calc. Resul	lt * Limit	s F
Chloride		0							
CCV	Continuing Calibration Ve	erification	WCS46501					09/25/2007	1700
Par	ameter/Test Description	QC Result	QC Result	True Va	alue Or	ig. Value	Calc. Resul	lt * Limit	s F
Chloride		19.546		20.	.00	1.5	97.7	90.0-1	10.0
DU	Method Duplicate			34	42749-5			09/25/2007	1554
Par	ameter/Test Description	QC Result	QC Result	True Va	alue Or	ig. Value	Calc. Resul	lt * Limit	s F
Chloride, SP	LP	5.6761				5.7883	2.0	20	
ICB	Initial Calibration Blank	c .						09/25/2007	1420
Par	ameter/Test Description	QC Result	QC Result	True Va	alue Or	ig. Value	Calc. Resul	lt * Limit	s F
Chloride		0							
ICV	Initial Calibration Verif	fication	WCS46049					09/25/2007	1404
Par	ameter/Test Description	QC Result	QC Result	True Va	alue Or	ig. Value	Calc. Resul	lt * Limit	s F
Chloride		19.620		20.	.00		98.1	90.0-1	10.0
LCS	Laboratory Control Sample	2	WCS46501					09/25/2007	1451
Par	ameter/Test Description	QC Result	QC Result	True Va	alue Or	ig. Value	Calc. Resul	lt * Limit	s F
Chloride		19.489		20.	.00		97.4	90.0-1	10.0

Page 28 \* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

	Job Number.: 342749	QUALITY	CONTRO	L R	ESULT	S	Repor	t Date.: 10/0	05/2007	
CUSTOMER:	Tetra Tech,Inc.	PROJ	ECT: WYATT A				ATTN:	5		
QC Type	Description	n	Reag. Coo	de	Lab	Lab ID		Dilution Factor		Time
MB	Method Blank	-					1		09/25/2007	1435
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	lt * Limit	s F
Chloride		0						-		
MB	Method Blank		PLP						09/25/2007	1507
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	lt * Limit	s F
Chloride, SP	LP	1.3641		-						b
MS	Matrix Spike		WCS46233		342749-5	Ē.			09/25/2007	1609
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	lt * Limit	s F
Chloride, SP	LP	15.152		-	10.000000		5.7883	93.6	90-1	10
ССВ	Continuing Calibration B	lank							09/26/2007	1115
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	lt * Limit	s F
Chloride		0								
CCB	Continuing Calibration B	lank							09/26/2007	1335
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	lt * Limit	s F
Chloride		0		-		-	-			
CCV	Continuing Calibration V	erification	WCS46501						09/26/2007	1059
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	lt * Limit	s F
Chloride		19.649			20.00			98.2	90.0-1	10.0
CCV	Continuing Calibration Ve	erification	WCS46501						09/26/2007	1320
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	lt * Limit	s F
Chloride		19.545			20.00			97.7	90.0-1	10.0
DU	Method Duplicate				342749-1	0			09/26/2007	0957
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resul	lt * Limit	s F
Chloride, SP	LP	11.099		-			11.324	2.0	20	

Page 29 \* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

	Job Number.: 342749	QUALITY	CONTRO	LRI	ESUL	TS	Repor	t Date.: 10/	05/2007
CUSTOMER:	Tetra Tech, Inc.	PROJ	ECT: WYATT A	- 20			ATTN:	5	
QC Type	Description	1	Reag. Co	de	Lab	ID	Dilu	tion Factor	Date Time
ICB	Initial Calibration Blan	¢			-				09/26/2007 083
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Resu	lt * Limits
Chloride		0							
ICV	Initial Calibration Veri	fication	WCS46049						09/26/2007 082
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Resu	lt * Limits
Chloride		19.937		2	20.00			99.7	90.0-110.0
LCS	Laboratory Control Sample	é	WCS46501						09/26/2007 091
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Resu	lt * Limits
Thloride		19.770		2	20.00	-		98.8	90.0-110.0
MB	Method Blank								09/26/2007 085
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Resu	lt * Limits
hloride		0							
MB	Method Blank		PLP						09/26/2007 092
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Resu	lt * Limits
chloride, SP	LP	1.3524		1			-		
MS	Matrix Spike		WCS46233		342749-	10			09/26/2007 101
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Resu	lt * Limits
chloride, SP	Γb	20.950		.1	10.00000	0 1	1.324	96.3	90-110
Test Metho Method Des	d: SW-846 8015B cription.: Total Extractable	e Petroleum Hydro	Units. ocarbons Batch(	s): 1	: m 186220 1	g/L 86227		Analy	st: jps
LCS	Laboratory Control Sample	9	GC053007		185984				09/25/2007 204
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Resu	lt * Limits
TEPH - as Di	esel, Soil	1021.06		100	00.00000	0		102.1	70-130

Page 30 \* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

	Job Number.: 342749	QUALITY	CONTRO	L R	ESUL'	r s	Repor	t Date.: 10/	05/2007	
CUSTOMER:	Tetra Tech, Inc.	PROJ	JECT: WYATT A				ATTN:	5		
QC Type	Description		Reag. Code Lab			Lab ID Dilution Facto		tion Factor	Date Time	
MB	Method Blank		GC091507	-	185984				09/25/2007 195	
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resu	lt * Limits H	
FEPH - as Di	esel, Soil	ND								
MS	Matrix Spike		GC053007A		342749-	11			09/25/2007 2043	
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resu	lt * Limits H	
TEPH - as Di	esel, Soil	1217.34		10	000.0000	0 38	0.74	84	70-130	
MSD	Matrix Spike Duplicate		GC053007A		342749-	11			09/25/2007 2125	
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resu	lt * Limits H	
TEPH - as Di	esel, Soil	1289.60	1217.34	10	000.00000	0 38	0.74	91 5.8	70-130 30.0	
LCS	Laboratory Control Sample		GC053007		186054				09/26/2007 1409	
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resu	lt * Limits 1	
TEPH - as Di	esel, Soil	1222.59		10	000.0000	0		122.3	70-130	
MB	Method Blank		GC091507		186054				09/26/2007 1324	
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resu	lt * Limits H	
TEPH - as Di	esel, Soil	ND		-	÷		-			
MS	Matrix Spike		GC053007A		342749-	15			09/26/2007 1409	
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resu	lt * Limits H	
TEPH - as Di	esel, Soil	1634.75		10	000.00000	0 37	1.27	126	70-130	
MSD	Matrix Spike Duplicate		GC053007A		342749-	15			09/26/2007 1453	
Par	ameter/Test Description	QC Result	QC Result	True	e Value	Orig.	Value	Calc. Resu	lt * Limits H	
TEPH - as Di	esel, Soil	1514.34	1634.75	10	000.00000	0 37	1.27	114 7.6	70-130 30.0	

Page 31 \* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

	Job Number.: 342749	QUALITY	CONTRO	L RESUL	T S Repor	t Date.: 10/	05/2007
CUSTOMER:	Tetra Tech, Inc.	PROJ	ECT: WYATT A	1.1	ATTN:	9	
QC Type	Description	Reag. Coo	Dilu Dilu	tion Factor	Date Time		
Test Metho Method Des	od: SW-846 8260B ccription.: Volatile Organics	1	Units. Batch(s	;): 186047 1	ng/L .86090 186118 1	Analy 86177 186224	st: zfl 186613
LCS	Laboratory Control Sample		VS091807E				09/24/2007 1341
Par	ameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Resu	lt * Limits F
Benzene, Soi Ethylbenzene Toluene, Soi Xylenes (tot	ll 2, Soil Ll cal), Soil	44.9146 46.8896 44.6123 143.663		50.00 50.00 50.00 150.0	ND ND ND ND	89.8 93.8 89.2 95.8	68-121 66-130 66-127 37-160
MB	Method Blank		VS091807C				09/24/2007 1432
Par	ameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Resu	lt * Limits F
Benzene, Soi Ethylbenzene Toluene, Soi Xylenes (tot	l , Soil l cal), Soil	ND ND ND ND					

MS	Matrix Spike		VS091807E	342749-	-3		09/2	4/2007 15	550
Par	ameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Soi	1	43.5589		50.00	ND	87	1.4.5	65-135	_
Ethylbenzene	, Soil	44.1230		50.00	ND	88		60-140	
Toluene, Soi.	1	43.9908		50.00	ND	88		64-135	
Xylenes (tot	al), Soil	137.509		150.0	ND	92		60-140	

MSD	Matrix Spike Duplicate		VS091807E	342749-	-3		09/24/2007 10	615
P	arameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Benzene, S	oil	44.5338	43.5589	50.00	ND	89 2.2	65-135 30.0	1
Ethylbenze	ne, Soil	42.8797	44.1230	50.00	ND	86 2.9	60-140 30.0	
Toluene, S	oil	42.9673	43.9908	50.00	ND	86 2.4	64-135 30.0	
Xylenes (to	otal), Soil	132.005	137.509	150.0	ND	88 4.1	60-140 30.0	

	Job Number.: 342749	QUALITY	CONTRO	L RESUL	T S Repor	t Date.: 10/	05/2007
CUSTOMER: "	Tetra Tech, Inc.	PROJI	ECT: WYATT A	1.1	ATTN:		
QC Type	Description		Reag. Cod	e Lat	o ID Dilu	tion Factor	Date Time
LCS	Laboratory Control Sample		VS091807H	1			09/25/2007 1328
Para	ameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Resu	lt * Limits F
Benzene, Wate Ethylbenzene, Toluene, Wate Xylenes (tota	er , Water er al), Water	49.0033 47.3537 49.2324 150.7994		50.00 50.00 50.00 150.	ND ND ND 0.0000	98.0 94.7 98.5 100.5	68–127 64–132 63–127 37–161
MB	Method Blank		VS091807C				09/25/2007 1420
Para	ameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Resu	lt * Limits F
Benzene, Wate Ethylbenzene, Toluene, Wate Xylenes (tota	er , Water er al), Water	ND ND ND 0.0000					
PB	Prep. Blank		VS091807C				09/25/2007 1354
Para	ameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Resu	lt * Limits F
Benzene, SPLI Ethylbenzene, Toluene, SPLI Xylenes (tota	P , SPLP P al), SPLP	ND ND ND 0.0000			-		
LCS	Laboratory Control Sample		VS091807E				09/25/2007 1216
Para	ameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Resu	lt * Limits F
Benzene, Soi Ethylbenzene, Toluene, Soi Xylenes (tota	l , Soil l al), Soil	42.8156 43.8557 44.0519 132.846		50.00 50.00 50.00 150.0	ND ND ND ND	85.6 87.7 88.1 88.6	68-121 66-130 66-127 37-160
MB	Method Blank		VS091807C				09/25/2007 1347
Para	ameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Resu	lt * Limits F
Benzene, Soil Ethylbenzene, Toluene, Soil Xylenes (tota	l , Soil l al), Soil	ND ND ND ND					
MS	Matrix Spike		VS091807E	342749-	-21		09/25/2007 1556
Para	ameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Resu	lt * Limits F
Benzene, Soi Ethylbenzene, Toluene, Soi Xylenes (tota	l , Soil l al), Soil	44.7469 46.1141 45.7658 142.263		50.00 50.00 50.00 150.0	ND ND ND ND	89 92 92 95	65-135 60-140 64-135 60-140

Page 33 \* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

	Job Number.: 342749	QUALITY	CONTRO	l R	ESUL	T S Re	eport Date.: 10/	/05/2007	
CUSTOMER: '	Tetra Tech,Inc.	PROJI	ECT: WYATT A			ΓA	TIN:		
QC Type	Description		Reag. Coo	le	Lab ID		Dilution Factor	Date T	ime
MSD	Matrix Spike Duplicate		VS091807E		342749-	-21		09/25/2007	1622
Para	ameter/Test Description	QC Result	QC Result	True	e Value	Orig. Val	ue Calc. Resu	ult * Limits	F
Benzene, Soi	1	45.3178	44.7469		50.00	ND	91	65-135	
Ethylbenzene	, Soil	44.6912	46.1141		50.00	ND	89	50.0 60-140	il.
Toluene, Soi	1	45,2052	45.7658		50.00	ND	3.1 90	30.0 64-135	-
Xylenes (tota	al), Soil	139,109	142.263	1	.50.0	ND	1.2 93 2.2	30.0 60-140 30.0	
LCS	Laboratory Control Sample		VS091807H					09/26/2007	1149
Para	ameter/Test Description	QC Result	QC Result	True	e Value	Orig. Val	ue Calc. Resu	lt * Limits	F
Benzene, Wate Ethylbenzene Toluene, Wate Xylenes (tota	er , Water er al), Water	45.2609 42.7360 44.3166 132.670		1	50.00 50.00 50.00 50.00	ND ND ND ND	90.5 85.5 88.6 88.4	68-127 64-132 63-127 37-161	
MB	Method Blank		VS091807C					09/26/2007	1333
Para	ameter/Test Description	QC Result	QC Result	True	e Value	Orig. Val	ue Calc. Resu	ult * Limits	F
Benzene, Wate Ethylbenzene, Toluene, Wate Xylenes (tota	er , Water er al), Water	ND ND ND ND							
MS	Matrix Spike		VS091807E		342749-	-23		09/26/2007	1543
Para	ameter/Test Description	QC Result	QC Result	True	e Value	Orig. Val	ue Calc. Resu	lt * Limits	F
Benzene, Wate Ethylbenzene Toluene, Wate Xylenes (tota	er , Water ar al), Water	48.6620 53.2043 51.4461 163.080		1	50.00 50.00 50.00 50.0	ND ND ND ND	97 106 103 109	65-125 60-140 76-125 37-140	
MSD	Matrix Spike Duplicate		VS091807E		342749-	-23		09/26/2007	1609
Para	ameter/Test Description	QC Result	QC Result	True	e Value	Orig. Val	ue Calc. Resu	ult * Limits	F
Benzene, Wate	er	48.9253	48.6620	-	50.00	ND	98 0 c	65-125	7 =
Ethylbenzene	, Water	52.9147	53.2043		50.00	ND	106	60-140	
Toluene, Wate	er	53.7873	51.4461		50.00	ND	0.5 108	30.0 76-125	
Xylenes (tota	al), Water	164.644	163.080	1	.50.0	ND	110 1.0	30.0 37-140 30.0	

Page 34 \* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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	Job Number.: 342749	QUALITY	CONTRO	L KESUL	T S Report	Date.: 10/0	05/2007
CUSTOMER: 1	Tetra Tech, Inc.	PROJ	ECT: WYATT A	1.1	ATTN:		
QC Type	Description	1	Reag. Coo	de Lat	o ID Dilut	tion Factor	Date Time
PB	Prep. Blank		VS091807C			1	09/26/2007 130
Para	ameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Resul	lt * Limits
Benzene, SPLI Ethylbenzene, Toluene, SPLI Xylenes (tota	P SPLP P al), SPLP	ND ND ND ND				0	
LCS	Laboratory Control Sample		VS091807H				09/26/2007 124
Para	ameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Resul	lt * Limits
Benzene, Soil Ethylbenzene, Toluene, Soil Xylenes (tota	L Soil L al), Soil	49.1315 49.6124 49.8780 153.142		50.00 50.00 50.00 150.	ND ND ND ND	98.3 99.2 99.8 102.1	68-121 66-130 66-127 37-160
MB	Method Blank		VS091807C			1	09/26/2007 135
Para	ameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Resul	lt * Limits
Benzene, Soil Ethylbenzene, Toluene, Soil Xylenes (tota	L , Soil L al), Soil	ND ND ND ND					
MS	Matrix Spike		VS091807E	342749-	-2		09/26/2007 200
Para	ameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Resul	lt * Limits
Benzene, Soil Ethylbenzene, Toluene, Soil Xylenes (tota	l , Soil L al), Soil	56.2328 176.603 91.7363 380.668		50.00 50.00 50.00 150.0	ND 115.203 28.5907 191.859	112 123 126 126	65-135 60-140 64-135 60-140
MSD	Matrix Spike Duplicate		VS091807E	342749-	-2		09/26/2007 202
Para	ameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Resul	lt * Limits
Benzene, Soil	L.	65.5534	56.2328	50.00	ND	131	65-135
Ethylbenzene,	. Soil	186.309	176.603	50.00	115.203	142	60-140
Toluene, Soil		100.944	91.7363	50.00	28.5907	145 9.6	64-135 30.0

\* %=% REC, R=RPD, A=ABS Diff., D=% Diff. Page 35

CUSTOMER:	Tetra Tech,Inc.	PROJI	ECT: WYATT A			A	TTN:	
QC Type	Description		Reag. Code		Lab	ID	Dilution Factor	Date Time
LCS	Laboratory Control Sample	-	VS100207H		-			10/03/2007 121
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig. Va	lue Calc. Rest	ult * Limits
Benzene, Wat Sthylbenzene Coluene, Wat Kylenes (tot	er , Water er al), Water	52.3673 55.5195 53.9257 167.722		1	50.00 50.00 50.00 50.	ND ND ND ND	104.7 111.0 107.9 111.8	68-127 64-132 63-127 37-161
MB	Method Blank		VS100207C					10/03/2007 145
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig. Va	lue Calc. Rest	ult * Limits
Benzene, Wat Ethylbenzene Toluene, Wat Xylenes (tot	er , Water er al), Water	ND ND ND ND						
MS	Matrix Spike		VS100207E		343094-	1	5000.0000	10/03/2007 161
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig. Va	lue Calc. Rest	ult * Limits
Benzene, TCL	P	39.6452			50.00	ND	79	63-123
MSD	Matrix Spike Duplicate		VS100207E		343094-	1	5000.0000	10/03/2007 164
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig. Va	lue Calc. Res	ult * Limits
Benzene, TCL	P	39.7260	39.6452		50.00	ND	79 0.2	63-123 30.0
PB	Prep. Blank		VS100207C				20.00000	10/03/2007 135
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig. Va	lue Calc. Rest	ult * Limits
Benzene, TCL Ethylbenzene Toluene, TCL Xylenes (tot	P , TCLP P al), TCLP	ND ND ND ND						
PB	Prep. Blank		VS100207C					10/03/2007 142
Par	ameter/Test Description	QC Result	QC Result	True	Value	Orig. Va	lue Calc. Rest	ult * Limits
Benzene, SPL Ethylbenzene Foluene, SPL Xylenes (tot	P , SPLP P al), SPLP	ND ND ND ND						

Page 36 \* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

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CUSTOMER: Tetra	n Te	ch,Inc.	PROJECT: WYATT	A			ATTN: Charlie Durret		
Method Batch(s).	····	: Total Extractable : 186220	Petroleum Hydrocarbons	Metho Test	d Code: Matrix:	8015D Soil	Prep Batch: 185984 Equipment Code: EXTGC01		
ab ID	DT	Sample ID	E	ate	OTERPH				
12749- 1	-	T1A 0-6"	09/2	5/2007	118				
2749- 2		T1B 0-6"	09/2	6/2007	750d				
2749- 3		T1C 0-6"	09/2	5/2007	105				
2749- 4		T1A 5'	09/2	5/2007	105				
2749- 5		T1B 5'	09/2	6/2007	115				
2749- 6		TIC 5'	09/2	6/2007	102				
2749- 10		T2A 5'	09/2	6/2007	91				
2749- 11		T2B 5'	09/2	5/2007	109				
2749- 11 MS		T2B 5'	09/2	5/2007	102				
2749- 11 MSD		T2B 5'	09/2	5/2007	106				
2749- 12		T2C 5'	09/2	6/2007	106				
2749-14		T3B 10'	09/2	6/2007	846d				
2749- 17		T4 14'	09/2	6/2007	414d				
2749- 19		T5 5'	09/2	5/2007	94				
2749- 21		T6 10'	09/2	6/2007	115				
2749- 22		T3A 5'	09/2	6/2007	144d				
2749-23		T3B 10'	09/2	6/2007	120				
2749-24		T3C 5'	09/2	6/2007	102				
3598421 LCS			09/2	5/2007	106				
598421 MB			09/2	5/2007	107				
est Test	Des	cription	Limits						
TERPH o-Ter	phe	nyl	60 - 140						
Method		: Total Extractable	Petroleum Hydrocarbons	Metho	d Code:	8015D	Prep Batch: 186054		

Lab ID	1	DT	Sample ID	Date	OTERPH	
342749- 7	7		T2A 0-6"	09/26/2007	108	
342749- 8	3		T2B 0-6"	09/26/2007	216d	
342749- 9	)		T2C 0-6"	09/27/2007	124	
342749- 13	3		T3A 0-6"	09/26/2007	152d	
342749- 15	5		T3C 0-6"	09/26/2007	118	
342749- 15	MS		T3C 0-6"	09/26/2007	122	
342749- 15	5 MSD		T3C 0-6"	09/26/2007	109	
342749- 16	5		T4 0-6"	09/27/2007	1952d	
342749- 18	3		T5 0-6"	09/27/2007	121	
342749- 20	)		T6 0-6"	09/26/2007	342d	
18605421	LCS			09/26/2007	121	
18605421	MB			09/26/2007	110	
Test	Test	Des	cription	Limits		
OTERPH	o-Ter	phe	nvl	60 - 140		

SURROGATE RECOVERIES REPORT Job Number.: 342749

Report Date.: 10/05/2007

CUSTOMER: 48	13	64	8
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PROJECT: WYATT A

Method        ::         Total Volatile Fetroleum Hydrocarbons         Method Code::         S015C         Prep Batch:           Lab ID         DT         Sample ID         Date         NTF         BFB           186215-1         1 LCS         09/25/2007         89.2         90.6           186215-1         1 MS         09/25/2007         89.2         90.6           186215-2         LOS         09/26/2007         97.8         94.4           186215-2         SB         09/26/2007         103.6         91.4           186215-2         SB         09/26/2007         103.6         91.4           186215-2         SB         09/26/2007         103.6         91.4           186215-2         SB         09/26/2007         247.2d         1587.d           342749-3         TIL 0-6"         09/26/2007         103.2         98.6           342749-4         TIL 5'         09/25/2007         103.2         98.6           342749-5         TIE 5'         09/25/2007         103.8         97.6           342749-6         TIC 5'         09/25/2007         104.5         92.4           342749-7         TX 206"         09/25/2007         104.1         11.0	CUSTOMER	: 48364	18	PROJEC	T: WYATT A			ATIN: Charlie Durret
Lab ID         DT         Sample ID         Date         NTFT         BFB           186215-1         1 KS $99/25/2007$ $89.2$ $90.6$ 186215-2         2 KS $09/25/2007$ $89.2$ $90.6$ 186215-2         2 KS $09/25/2007$ $79.8$ $94.4$ 186215-2         2 MB $09/26/2007$ $79.8$ $94.4$ 186215-2         2 SB $09/26/2007$ $99.0$ $96.6$ 342749-1         TIA 0-6" $09/26/2007$ $99.0$ $98.6$ 342749-2         TIB 0-6" $09/26/2007$ $247.24$ $1587.d$ 342749-3         TIC 0-6" $09/25/2007$ $106.5$ $94.25$ 342749-4         TIC 5' $09/25/2007$ $106.5$ $94.25$ 342749-5         TIC 5' $09/25/2007$ $106.5$ $94.25$ 342749-6         MS         TIC 5' $09/25/2007$ $106.5$ $94.25$ 342749-9         T2C 0-6" $09/25/2007$ $101.1$ $110.0$ $98.7$ 342749-10         T2A 5'	Me Ba	thod		: Total Volatile Petroleum Hydrocarb : 186215	ons Meth Test	od Code Matrix	.: 8015G .: Soil	Prep Batch: Equipment Code: BTEX07
186215-1       1 LCS       09/25/2007       89.2       90.6         186215-2       LCS       09/25/2007       99.8       95.0         186215-2       LCS       09/26/2007       99.8       94.4         186215-2       SB       09/26/2007       99.3       94.8         186215-2       SB       09/26/2007       99.3       94.6         186215-2       SB       09/26/2007       99.0       98.6         342749-1       TIA 0-6"       09/26/2007       108.2       98.6         342749-2       TIB 0-6"       09/26/2007       108.2       98.6         342749-4       TIA 5'       09/26/2007       108.2       98.6         342749-5       TIB 5'       09/25/2007       108.2       98.6         342749-6       TIC 5'       09/25/2007       108.5       94.4         342749-7       T2A 0-6"       09/25/2007       102.5       98.0         342749-9       TIC 5'       09/25/2007       102.5       98.0         342749-9       T2C 0-6"       09/25/2007       106.1       94.8         342749-10       T2A 5'       09/25/2007       110.1       91.0         342749-11       T2B 5'       09/	Lab ID		DT	Sample ID	Date	ATFT	BFB	
186215-       1 MB       09/25/2007       97.8       94.4         186215-       2 MB       09/26/2007       97.8       94.4         186215-       2 SB       09/26/2007       97.8       94.4         186215-       2 SB       09/26/2007       99.0       98.6         342749-1       T1A 0-6"       09/26/2007       103.6       91.4         342749-3       T1C 0-6"       09/26/2007       108.2       98.6         342749-4       T1A 5'       09/26/2007       107.0       93.6         342749-5       T1B 5'       09/25/2007       106.5       92.5         342749-6       T1C 5'       09/25/2007       106.5       94.2         342749-7       T2A 0-6"       09/25/2007       106.5       94.2         342749-8       T2B 0-6"       09/25/2007       106.5       94.2         342749-9       T2A 0-6"       09/25/2007       106.1       111.0         342749-9       T2C 0-6"       09/25/2007       108.8       97.6         342749-9       T2C 0-6"       09/25/2007       117.1       103.4         342749-10       T2A 5'       09/25/2007       110.1       11.0         342749-11       T2B 5' </td <td>186215-</td> <td>1 LCS</td> <td></td> <td></td> <td>09/25/2007</td> <td>89.2</td> <td>90.6</td> <td></td>	186215-	1 LCS			09/25/2007	89.2	90.6	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	186215-	1 MB			09/25/2007	99.8	95.0	
186215-2       2 MB       09/26/2007       99.3       94.8         186215-2       2 SB       09/26/2007       103.6       91.4         186215-2       2 SB       09/26/2007       108.2       98.6         342749-1       T1A 0-6"       09/26/2007       108.2       98.6         342749-3       T1C 0-6"       09/26/2007       108.2       98.6         342749-4       T1B 0-6"       09/26/2007       104.5       92.5         342749-5       T1B 5'       09/25/2007       104.5       92.5         342749-6       MS       T1C 5'       09/25/2007       106.5       94.2         342749-7       T2A 0-6"       09/25/2007       106.0       94.8         342749-6       MSD <t1c 5'<="" td="">       09/25/2007       106.1       94.8         342749-7       T2A 0-6"       09/25/2007       106.1       94.8         342749-8       T2B 0-6"       09/25/2007       106.1       94.8         342749-9       T2C 0-6"       09/25/2007       106.1       91.1         342749-10       T2A 5'       09/25/2007       110.1       91.0         342749-11       T3B 0'       09/26/2007       107.1       101.4         34</t1c>	186215-	2 LCS			09/26/2007	97.8	94.4	
186215-       2 SB       09/26/2007       103.6       91.4         186215-       2 SBD       09/26/2007       99.0       98.6         342749-       1 T1A 0-6"       09/26/2007       247.2d       1587.d         342749-       2 T1B 0-6"       09/26/2007       247.2d       1587.d         342749-       4 T1A 5'       09/25/2007       108.2       98.6         342749-       4 T1A 5'       09/25/2007       108.5       93.6         342749-       6 T1C 5'       09/25/2007       104.5       92.5         342749-       6 T1C 5'       09/25/2007       98.0       342749         342749-       6 MSD T1C 5'       09/25/2007       98.2       94.8         342749-       7 T2A 0-6"       09/25/2007       106.0       94.8         342749-       9 T2C 0-6"       09/25/2007       110.1       111.0         342749-       9 T2B 0-6"       09/25/2007       111.1       103.4         342749-       10 T2A 5'       09/25/2007       111.1       103.4         342749-       12 T2C 0-6"       09/25/2007       111.0       94.8         342749-       12 T2C 0-6"       09/25/2007       110.1       110.4	186215-	2 MB			09/26/2007	99.3	94.8	
186215-       2 SBD $09/26/2007$ 99.0       98.6         342749-       1       TL 0-6" $09/26/2007$ 105.2       98.6         342749-       2       TLB 0-6" $09/26/2007$ 105.2       98.6         342749-       3       TLC 0-6" $09/26/2007$ 105.2       98.6         342749-       4       TLA 5' $09/25/2007$ 106.5       94.2         342749-       6       TLC 5' $09/25/2007$ 106.5       94.2         342749-       6       MS       TLC 5' $09/25/2007$ 106.1       94.8         342749-       6       MS       TLC 5' $09/25/2007$ 106.0       94.8         342749-       7       TZA 0-6" $09/25/2007$ 106.1       111.0         342749-       8       TZB 0-6" $09/25/2007$ 106.8       97.6         342749-       10       TZA 5' $09/25/2007$ 110.1       11.0         342749-       11       TZB 5' $09/25/2007$ 110.1       98.7         342749-       13       TA 0-6" $09/27/2007$ 106.4       101.4         342749-       14	186215-	2 SB			09/26/2007	103.6	91.4	
342749 - 1       TIA 0-6" $09/26/2007$ $108.2$ $98.6$ $342749 - 3$ TIC 0-6" $09/26/2007$ $105.0$ $93.6$ $342749 - 4$ TIA 5' $09/25/2007$ $106.5$ $93.6$ $342749 - 4$ TIA 5' $09/25/2007$ $106.5$ $94.2$ $342749 - 6$ TIC 5' $09/25/2007$ $106.5$ $94.2$ $342749 - 6$ MSD       TIC 5' $09/25/2007$ $106.5$ $94.2$ $342749 - 6$ MSD       TIC 5' $09/25/2007$ $106.5$ $94.2$ $342749 - 6$ MSD       TIC 5' $09/25/2007$ $106.1$ $94.8$ $342749 - 7$ TZA 0-6" $09/25/2007$ $106.1$ $91.1$ $342749 - 9$ TZC 0-6" $09/25/2007$ $110.1$ $11.0$ $342749 - 10$ TZA 5' $09/25/2007$ $110.1$ $91.0$ $342749 - 12$ TZC 5' $09/25/2007$ $110.1$ $91.2$ $342749 - 12$ TZA 5' $09/27/2007$ $107.1$ $03.4$ $342749 - 14$ T3B 10' $09/27/2007$ $107.0$ <	186215-	2 SBD			09/26/2007	99.0	98.6	
342749 - 2       TB 0-6" $09/26/2007$ $247.2d$ $1587.d$ $342749 - 3$ TiC 0-6" $09/26/2007$ $105.0$ $93.6$ $342749 - 4$ TIA 5' $09/25/2007$ $104.5$ $92.5$ $342749 - 6$ TIC 5' $09/25/2007$ $106.5$ $94.2$ $342749 - 6$ MSD       TIC 5' $09/25/2007$ $98.2$ $95.4$ $342749 - 6$ MSD       TIC 5' $09/25/2007$ $108.8$ $97.6$ $342749 - 8$ T28 0-6" $09/25/2007$ $108.8$ $97.6$ $342749 - 9$ T2C 0-6" $09/25/2007$ $110.1$ $99.0$ $342749 - 10$ T2A 5' $09/25/2007$ $110.1$ $99.0$ $342749 - 10$ T2A 5' $09/25/2007$ $110.1$ $99.0$ $342749 - 10$ T2A 5' $09/25/2007$ $110.1$ $90.4$ $342749 - 10$ T2A 5' $09/25/2007$ $110.1$ $90.4$ $342749 - 11$ T2B 5' $09/25/2007$ $110.0$ $98.0$ $342749 - 14$ T3B 10' $09/27/2007$ $160.4$ $100.0$	342749-	1		T1A 0-6"	09/26/2007	108.2	98.6	
342749 - 3       TIC 0-6" $09/26/2007$ $105.0$ $93.6$ $342749 - 4$ TIA 5' $09/25/2007$ $110.8$ $98.5$ $342749 - 6$ TIC 5' $09/25/2007$ $106.5$ $94.2$ $342749 - 6$ TIC 5' $09/25/2007$ $106.5$ $94.2$ $342749 - 6$ MSD       TIC 5' $09/25/2007$ $98.2$ $95.4$ $342749 - 7$ T2A 0-6" $09/25/2007$ $106.0$ $94.8$ $342749 - 7$ T2A 0-6" $09/25/2007$ $106.0$ $94.8$ $342749 - 7$ T2A 0-6" $09/25/2007$ $106.0$ $94.8$ $342749 - 7$ T2A 0-6" $09/25/2007$ $101.1$ $101.0$ $342749 - 10$ T2A 5' $09/25/2007$ $110.1$ $99.0$ $342749 - 11$ T2B 5' $09/25/2007$ $111.0$ $98.7$ $342749 - 14$ T3B 10' $09/27/2007$ $107.0$ $96.0$ $342749 - 14$ T3B 10' $09/27/2007$ $107.0$ $96.0$ $342749 - 16$ T4 0-6" $09/27/2007$ $106.4$ $100.0$ <tr< td=""><td>342749-</td><td>2</td><td></td><td>T1B 0-6"</td><td>09/26/2007</td><td>247.2d</td><td>1587.d</td><td></td></tr<>	342749-	2		T1B 0-6"	09/26/2007	247.2d	1587.d	
342749-4TIA 5' $09/25/2007$ 110.898.5342749-5TIB 5' $09/25/2007$ 104.592.5342749-6TIC 5' $09/25/2007$ 102.598.0342749-6MSDTIC 5' $09/25/2007$ 98.0342749-7T2A 0-6" $09/25/2007$ 98.295.4342749-9T2C 0-6" $09/25/2007$ 106.094.8342749-10T2A 5' $09/25/2007$ 101.199.0342749-10T2A 5' $09/25/2007$ 111.099.0342749-12T2C 5' $09/25/2007$ 111.199.0342749-13T3A 0-6" $09/25/2007$ 115.1101.4342749-14T3B 10' $09/27/2007$ 247.0d1019.d342749-15T3C 0-6" $09/27/2007$ 160.4100.0342749-16T4 0-6" $09/27/2007$ 164.1100.0342749-17T4 14' $09/27/2007$ 106.4100.0342749-19T5 5' $09/26/2007$ 107.497.2342749-20T6 0-6" $09/27/2007$ 106.4100.0342749-21T6 10' $09/26/2007$ 97.387.5342749-22T3A 5' $09/26/2007$ 107.497.2342749-23T3B 10' $09/26/2007$ 107.497.2342749-24T3C 5' $09/26/2007$ 107.497.2342749-24T3C 5' $09/26/2007$ 107.497.2342749-24T3C 5' $09/26/2007$ 107.497.5342749-24T6 10' $09/26/$	342749-	3		T1C 0-6"	09/26/2007	105.0	93.6	
342749- 342749- 6TIE 5'09/25/2007 09/25/2007 106.592.5342749- 6MSTIC 5'09/25/2007 09/25/2007 106.094.2342749- 342749- 7TZA 0-6"09/25/2007 09/25/2007 106.094.8342749- 342749- 9TZC 0-6"09/25/2007 09/25/2007 106.094.8342749- 342749- 10TZA 5'09/25/2007 09/25/2007 	342749-	4		T1A 5'	09/25/2007	110.8	98.5	
342749 - 6TIC 5' $09/25/2007$ $106.5$ $94.2$ $342749 - 6$ MSTIC 5' $09/25/2007$ $102.5$ $98.0$ $342749 - 7$ T2A 0-6" $09/25/2007$ $102.5$ $98.0$ $342749 - 7$ T2A 0-6" $09/25/2007$ $106.0$ $94.8$ $342749 - 8$ T2B 0-6" $09/25/2007$ $106.0$ $94.8$ $342749 - 8$ T2B 0-6" $09/25/2007$ $106.1$ $111.0$ $342749 - 9$ T2C 0-6" $09/25/2007$ $106.8$ $97.6$ $342749 - 10$ T2A 5' $09/25/2007$ $111.0$ $99.0$ $342749 - 12$ T2C 5' $09/25/2007$ $115.1$ $101.4$ $342749 - 12$ T2C 5' $09/25/2007$ $110.0$ $98.7$ $342749 - 13$ T3A 0-6" $09/27/2007$ $101.0$ $98.7$ $342749 - 15$ T3C 0-6" $09/27/2007$ $101.0$ $98.7$ $342749 - 15$ T3C 0-6" $09/27/2007$ $102.6$ $109.0$ $342749 - 16$ T4 0-6" $09/27/2007$ $169.6d$ $1925.d$ $342749 - 18$ T5 0-6" $09/27/2007$ $106.4$ $100.0$ $342749 - 20$ T6 0-6" $09/27/2007$ $107.4$ $97.2$ $342749 - 22$ T3A 5' $09/26/2007$ $103.4$ $92.4$ $342749 - 24$ T3C 5' $09/26/2007$ $107.4$ $97.4$ $342749 - 24$ T3C 5' $09/27/2007$ $107.7$ $95.4$ TestTest DescriptionLimits $100/27/2007$ $107.7$ $95.4$	342749-	5		T1B 5'	09/25/2007	104.5	92.5	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	342749-	6		T1C 5'	09/25/2007	106.5	94.2	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	342749-	6 MS		T1C 5'	09/25/2007	102.5	98.0	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	342749-	6 MSD		T1C 5'	09/25/2007	98.2	95.4	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	342749-	7		T2A 0-6"	09/25/2007	106.0	94.8	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	342749-	8		T2B 0-6"	09/25/2007	140.1	111.0	
$342749-10$ T2A 5' $09/25/2007$ $111.0$ $99.0$ $342749-11$ T2B 5' $09/25/2007$ $117.1$ $103.4$ $342749-12$ T2C 5' $09/25/2007$ $115.1$ $101.4$ $342749-13$ T3A 0-6" $09/26/2007$ $110.0$ $98.7$ $342749-14$ T3B 10' $09/27/2007$ $247.0d$ $1019.d$ $342749-15$ T3C 0-6" $09/27/2007$ $107.0$ $96.0$ $342749-16$ T4 0-6" $09/27/2007$ $107.0$ $96.0$ $342749-16$ T4 0-6" $09/27/2007$ $106.4$ $1925.d$ $342749-17$ T4 14' $09/27/2007$ $106.4$ $100.0$ $342749-18$ T5 0-6" $09/27/2007$ $107.4$ $97.2$ $342749-20$ T6 0-6" $09/27/2007$ $127.1$ $1213.d$ $342749-21$ T6 10' $09/26/2007$ $103.4$ $92.4$ $342749-22$ T3B 5' $09/26/2007$ $103.4$ $92.4$ $342749-24$ T3C 5' $09/27/2007$ $107.7$ $95.4$ Test DescriptionLimitsATFT $a_1a_1aTrifluorotoluene50 - 150$	342749-	9		T2C 0-6"	09/25/2007	108.8	97.6	
342749-11T2B 5' $09/25/2007$ $117.1$ $103.4$ $342749-12$ T2C 5' $09/25/2007$ $115.1$ $101.4$ $342749-13$ T3A 0-6" $09/25/2007$ $110.0$ $98.7$ $342749-14$ T3B 10' $09/27/2007$ $247.0d$ $1019.d$ $342749-15$ T3C 0-6" $09/27/2007$ $160.6d$ $1925.d$ $342749-16$ T4 0-6" $09/27/2007$ $169.6d$ $1925.d$ $342749-17$ T4 14' $09/27/2007$ $106.4$ $100.0$ $342749-18$ T5 0-6" $09/27/2007$ $107.4$ $97.2$ $342749-19$ T5 5' $09/26/2007$ $107.4$ $97.2$ $342749-20$ T6 0-6" $09/27/2007$ $107.4$ $97.5$ $342749-21$ T6 10' $09/26/2007$ $103.4$ $92.4$ $342749-22$ T3A 5' $09/26/2007$ $105.8$ $94.2$ $342749-24$ T3C 5' $09/27/2007$ $107.7$ $95.4$ TestTest DescriptionLimitsATFT $a,a,a-Trifluorotoluene$ $50 - 150$	342749- 1	0		T2A 5'	09/25/2007	111.0	99.0	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	342749- 1	1		T2B 5'	09/25/2007	117.1	103.4	
$342749 - 13$ T3A 0-6" $09/26/2007$ $110.0$ $98.7$ $342749 - 14$ T3B 10' $09/27/2007$ $247.0d$ $1019.d$ $342749 - 15$ T3C 0-6" $09/27/2007$ $107.0$ $96.0$ $342749 - 16$ T4 0-6" $09/27/2007$ $169.6d$ $1925.d$ $342749 - 17$ T4 14' $09/27/2007$ $380.1d$ $25000d$ $342749 - 18$ T5 0-6" $09/27/2007$ $106.4$ $100.0$ $342749 - 19$ T5 5' $09/26/2007$ $107.4$ $97.2$ $342749 - 20$ T6 0-6" $09/27/2007$ $127.1$ $1213.d$ $342749 - 21$ T6 10' $09/26/2007$ $97.3$ $87.5$ $342749 - 22$ T3A 5' $09/26/2007$ $103.4$ $92.4$ $342749 - 24$ T3C 5' $09/26/2007$ $107.7$ $95.4$ TestTest DescriptionLimitsATFT $a_ra_r Trifluorotoluene$ $50 - 150$	342749- 1	2		T2C 5'	09/25/2007	115.1	101.4	
$342749 - 14$ T3B 10' $09/27/2007$ $247.0d$ $1019.d$ $342749 - 15$ T3C 0-6" $09/27/2007$ $107.0$ $96.0$ $342749 - 16$ T4 0-6" $09/27/2007$ $169.6d$ $1925.d$ $342749 - 17$ T4 14' $09/27/2007$ $380.1d$ $25000d$ $342749 - 18$ T5 0-6" $09/27/2007$ $106.4$ $100.0$ $342749 - 19$ T5 5' $09/26/2007$ $107.4$ $97.2$ $342749 - 20$ T6 0-6" $09/27/2007$ $127.1$ $1213.d$ $342749 - 21$ T6 10' $09/26/2007$ $97.3$ $87.5$ $342749 - 22$ T3A 5' $09/26/2007$ $103.4$ $92.4$ $342749 - 23$ T3B 10' $09/26/2007$ $105.8$ $94.2$ $342749 - 24$ T3C 5' $09/26/2007$ $107.7$ $95.4$ TestTest DescriptionLimitsATFT $a_ra_r Trifluorotoluene$ $50 - 150$	342749- 1	3		T3A 0-6"	09/26/2007	110.0	98.7	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	342749- 1	4		T3B 10'	09/27/2007	247.0d	1019.d	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	342749- 1	5		T3C 0-6"	09/27/2007	107.0	96.0	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	342749- 1	6		T4 0-6"	09/27/2007	169.6d	1925.d	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	342749- 1	7		T4 14'	09/27/2007	380.1d	25000d	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	342749- 1	8		T5 0-6"	09/27/2007	106.4	100.0	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	342749- 1	9		T5 5'	09/26/2007	107.4	97.2	
342749-21       T6 10'       09/26/2007 97.3 87.5         342749-22       T3A 5'       09/26/2007 103.4 92.4         342749-23       T3B 10'       09/26/2007 105.8 94.2         342749-24       T3C 5'       09/27/2007 107.7 95.4         Test       Test Description       Limits         ATFT       a,a,a-Trifluorotoluene       50 - 150	342749- 2	0		T6 0-6"	09/27/2007	127.1	1213.d	
342749-22     T3A 5'     09/26/2007 103.4 92.4       342749-23     T3B 10'     09/26/2007 105.8 94.2       342749-24     T3C 5'     09/27/2007 107.7 95.4       Test     Test Description     Limits       ATFT     a,a,a-Trifluorotoluene     50 - 150	342749- 2	1		T6 10'	09/26/2007	97.3	87.5	
342749-23       T3B 10'       09/26/2007 105.8 94.2         342749-24       T3C 5'       09/27/2007 107.7 95.4         Test       Test Description       Limits         ATFT       a,a,a-Trifluorotoluene       50 - 150	342749- 2	2		T3A 5'	09/26/2007	103.4	92.4	
342749-24     T3C 5'     09/27/2007 107.7 95.4       Test     Test Description     Limits       ATFT     a,a,a-Trifluorotoluene     50 - 150	342749- 2	3		T3B 10'	09/26/2007	105.8	94.2	
Test     Test Description     Limits       ATFT     a,a,a-Trifluorotoluene     50 - 150	342749- 2	4		T3C 5'	09/27/2007	107.7	95.4	
ATFT a,a,a-Trifluorotoluene 50 - 150	Test	Test	Desc	cription Li	mits			
BFB = BFB (Surrorato) = 50 - 150	ATFT	a,a,a	a-Tr:	ifluorotoluene 50	- 150			

## SURROGATE RECOVERIES REPORT Job Number.: 342749

Report Date .: 10/05/2007

CUSTOMER: 483648

## PROJECT: WYATT A

ATTN: Charlie Durret

Metho Batch	od n(s)	: Volatile Organics : 186090 186177 186613		Metho Test	od Code Matrix	Prep Batch: Equipment Code: GCMSVOA03		
Lab ID	DT	Sample ID		Date	12DCED	BRFLBE	DBRFIM	TOLDS
LCS				09/26/2007	104.5	110.5	103.0	105.2
MB				09/26/2007	99.2	111.4	99.7	113.2
18609021 1	CS			09/25/2007	108.8	119.1	107.2	110.6
18609021 1	B			09/25/2007	107.4	111.7	106.2	109.3
342749- 23 1	1S	T3B 10'		09/26/2007	106.9	117.5	103.7	112.0
342749- 23 1	1SD	T3B 10'		09/26/2007	109.5	114.8	106.5	113.7
18661321 1	CS			10/03/2007	87.6	100.0	94.2	100.1
18661321 N	1B			10/03/2007	85.5	121.6	93.5	101.5
18661321 1	LCS			10/03/2007	84.5	102.7	92.4	104.6
Test	lest Des	scription	Limits					
12DCED :	L,2-Dich	nloroethane-d4	70 - 130	)				
BRFLBE	-Bromof	fluorobenzene	70 - 130	)				
DBRFLM	Dibromof	fluoromethane	70 - 130	)				
TOLD8	Coluene-	-d8	70 - 130	)				

Method Batch (:	5)	: Volatile Organics : 186090 186177 1860	613 Meth Test	od Code Matrix	.: 8260 .: SPLP	Prep Batch: Equipment Code: GCMSVOA03	
Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFIM	TOLD8
18600521 PB	1		09/25/2007	102.5	112.9	104.2	107.8
18607621 PB			09/26/2007	106.2	116.2	108.4	114.8
18650121 PB			10/03/2007	84.4	123.2	93.1	101.5
342749- 4		T1A 5'	09/25/2007	104.1	114.9	103.5	110.8
342749- 4 MS		T1A 5'	09/25/2007	107.0	114.0	104.1	110.6
342749- 4 MS	C	T1A 5'	09/25/2007	106.0	114.9	107.4	110.9
342749- 5		T1B 5'	09/25/2007	102.4	112.7	103.0	110.1
342749- 6		T1C 5'	09/25/2007	99.4	112.6	101.8	112.5
342749- 10		T2A 5'	09/25/2007	103.1	117.0	100.6	112.7
342749- 11		T2B 5'	09/25/2007	107.0	118.6	103.7	112.5
342749- 12		T2C 5'	09/25/2007	106.6	116.0	106.8	110.6
342749- 14		T3B 10'	09/26/2007	107.1	113.9	106.3	110.3
342749- 17		T4 14'	10/03/2007	83.7	98.6	90.7	101.5
342749- 19		T5 5'	09/26/2007	105.1	118.5	107.3	109.6
342749- 21		T6 10'	09/26/2007	98.0	115.8	101.8	108.9
342749- 22		T3A 5'	09/26/2007	104.2	116.4	106.1	108.6
342749- 23		T3B 10'	09/26/2007	106.0	112.6	103.5	108.7
342749- 24		T3C 5'	09/26/2007	105.1	119.3	107.9	111.4
Test Te:	st Des	scription	Limits				
12DCED 1.2	2-Dich	nloroethane-d4	70 - 130				
BRFLBE 4-1	Bromof	fluorobenzene	70 - 130				
DBRFIM Dil	promof	fluoromethane	70 - 130				
TOLD8 To.	luene-	-d8	70 - 130				

## SURROGATE RECOVERIES REPORT Job Number.: 342749 Re

Report Date .: 10/05/2007

CUSIOMER: 48.	CUSTC	MER:	483648
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PROJECT: WYATT A

ATTN: Charlie Durret

Method Batch (s	5)	: Volatile Organics : 186047 186118 186	5224 Meth Test	od Code Matrix	.: 8260 .: Soil		Prep Batch: Equipment Code: GCMSVOA03
Lab ID	DT	Sample ID	Date	12DCED	BRFLBE	DBRFIM	TOLD8
LCS			09/26/2007	108.1	120.5	108.1	111.6
MB			09/26/2007	102.8	119.8	105.0	111.5
18604721 LCS	5		09/24/2007	92.5	110.1	108.1	102.8
18604721 MB			09/24/2007	73.5	87.1	81.6	75.9
18611821 LCS	5		09/25/2007	92.0	103.7	95.5	94.6
18611821 MB			09/25/2007	80.4	98.2	84.6	86.1
342749- 1		T1A 0-6"	09/24/2007	92.9	93.5	90.4	81.7
342749- 2		T1B 0-6"	09/24/2007	78.2	111.5	88.5	95.7
342749- 2		T1B 0-6"	09/26/2007	107.8	118.7	108.5	110.4
342749- 2 MS		T1B 0-6"	09/26/2007	105.9	117.8	104.8	117.4
342749- 2 MSI	)	T1B 0-6"	09/26/2007	106.4	120.0	104.2	115.0
342749- 3		T1C 0-6"	09/24/2007	76.5	85.4	80.7	74.4
342749- 3 MS		T1C 0-6"	09/24/2007	71.9	84.8	80.7	79.1
342749- 3 MSI	)	T1C 0-6"	09/24/2007	76.9	85.7	85.1	79.1
342749- 4		T1A 5'	09/24/2007	77.5	78.6	83.4	74.8
342749- 5		T1B 5'	09/24/2007	83.5	83.8	84.8	74.4
342749- 6		T1C 5'	09/24/2007	89.6	89.9	95.4	83.8
342749- 7		T2A 0-6"	09/24/2007	79.2	91.5	89.0	84.4
342749- 8		T2B 0-6"	09/25/2007	76.8	88.5	78.8	74.0
342749- 9		T2C 0-6"	09/24/2007	85.3	97.7	89.8	83.0
342749- 10		T2A 5'	09/24/2007	87.0	95.6	94.7	83.3
342749- 11		T2B 5'	09/24/2007	91.5	99.0	96.4	85.9
342749- 12		T2C 5'	09/24/2007	92.3	98.2	96.7	83.2
342749- 13		T3A 0-6"	09/24/2007	84.5	91.5	92.1	84.9
342749- 14		T3B 10'	09/24/2007	85.8	111.7	89.3	109.6
342749- 14		T3B 10'	09/26/2007	99.3	108.0	101.2	108.2
342749- 15		T3C 0-6"	09/24/2007	92.2	96.6	103.5	85.5
342749- 16		T4 0-6"	09/25/2007	81.5	79.2	85.3	122.2
342749- 16		T4 0-6"	09/26/2007	101.2	116.1	57.5A	111.3
342749- 16		T4 0-6"	09/27/2007	109.0	109.4	91.1	99.1
342749- 17		T4 14'	09/24/2007	91.3	115.2	96.2	84.1
342749- 18		T5 0-6"	09/24/2007	80.8	94.6	86.4	82.7
342749- 19		T5 5'	09/24/2007	89.0	94.6	96.2	83.1
342749- 20		T6 0-6"	09/25/2007	69.2	69.5	71.2	87.1
342749- 20		T6 0-6"	09/26/2007	104.3	120.5	104.1	113.3
342749- 21		T6 10'	09/25/2007	86.1	94.2	88.0	85.5
342749- 21 MS		T6 10'	09/25/2007	83.6	94.7	89.7	87.0
342749- 21 MSI	2	T6 10'	09/25/2007	75.5	84.3	77.6	77.0
342749- 22		T3A 5'	09/25/2007	87.9	91.5	86.0	86.6
342749- 23		T3B 10'	09/25/2007	75.6	85.1	76.7	76.0
342749- 24		T3C 5'	09/25/2007	72.6	85.6	73.9	74.9
Test Tes	st Des	scription	Limits				
12DCED 1,2	2-Dich	nloroethane-d4	61 - 130				
BRFLBE 4-1	Bromof	luorobenzene	57 - 140				
DBRFIM Dil	promof	luoromethane	68 - 130				
TOLD8 To.	uene-	-d8	50 - 130				

SURROGATE RECOVERIES REPORT Job Number.: 342749 Report Date .: 10/05/2007

CUSTOMER: 483648

# PROJECT: WYATT A

STOMER:	483648	

ATTN: Charlie Durret

Method: Volatile Organics Batch(s): 186613			Metho Test	d Code Matrix	Prep Batch: Equipment Code: GCMSVOA04			
Lab ID	DT	Sample ID		Date	12DCED	BRFLBE	DBRFIM	TOLDS
.8652821 H 343094- 1 M 343094- 1 M	PB MS MSD	PENETRANT PENETRANT		10/03/2007 10/03/2007 10/03/2007	83.3 84.3 84.2	118.1 99.8 99.8	90.9 89.6 91.1	100.1 100.1 100.4
Test 7	Test Des	cription	Limi	ts				
12DCED 1 BRFLBE 4 DBRFLM I IOLD8 5	1,2-Dich 4-Bromof Dibromof Toluene-	loroethane-d4 luorobenzene luoromethane d8	70 - 70 - 70 - 70 -	130 130 130 130				

## QUALITY ASSURANCE METHODS

## REFERENCES AND NOTES

Report Date: 10/05/2007

#### REPORT COMMENTS

- 1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
- 2) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
- 3) According to 40CFR Part 136.3, pH, Chlorine Residual, and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field, (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.
- 4) For all USACE projects, the QC limits are based on "mean +/- 2 sigma", which are the warning limits.

#### General Information:

- Cresylic Acid is the combination of o,m and p-Cresol. The combination is reported as the final result.
- m-Cresol and p-Cresol co-elute. The result of the two is reported as either m&p-cresol or as p-cresol.
- m-Xylene and p-Xylene co-elute. The result of the two is reported as m,p-Xylene.
- N-Nitrosodiphenylamine decomposes in the gas chromatograph inlet forming dipheylamine and, consequently, may be detected as diphenylamine.
- Methylene Chloride and Acetone are recognized potential laboratory contaminants. Its presence in the sample up to five times the amcunt reported in the blank may be attributed to laboratory contamination.
- Trimethysilyl(Diazomethane) is used to esterify acid herbicides in Method SW-846 8151A.
  For Inorganic analyses, duplicate QC limits are determined as follows: If the sample result is less than or equal to 5 times the reporting limit, the RPD limit is equal to the reporting limit. If the sample result is greater than 5 times the reporting limit, the RPD limit is the method defined RPD.
- For TRRP reports, the header on the column RL is equivalent to a MQL/PQL.
- Results for LCS and MS/MSD recoveries listed in the report are reported as ug/L on-column values which are not corrected for variables such as sample volumes or weights extracted, final volume of extracts and dilutions. To correct QC on-column recoveries to reflect actual spiking volumes for soils, multiply the values reported for Diesel Range Organics and Semivolatiles by 33.3 and Gasoline Range Organics by 20. The 8260 and 1006 results will not require correction. The only corection required for water analysis is for method 1006 where the reported concentraiton must be multiplied by 0.1.
- Due to limitiation of the reporting software, results for the Method blank in the Semivolatile fraction are reported as "0". Which indicates there was no compound detected at the reporting limit for the compound reveiwed.

#### Explanation of Qualifiers:

- U This qualifier indicates that the analyte was analyzed but not detected.
- J (Organics only) This qualifier indicates that the analyte is an estimated value between the RL and the MDL.
- B (Inorganics only) This Qualifier indicates that the analyte is an estimated value between the RL and the MDL.
- N (Organics only) This flag indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic charachterization of a TIC, such as "chlorinated hydrocarbon", the "N" flag is not used.

Explanation of General QC Outliers:

- A Matrix interference present in sample.
- a MS/MSD analyses yielded comparable poor recoveries, indicating a possible matrix interference. Method performance is demonstrated by acceptable ICS recoveries.
- b Target analyte was found in the method blank.
- M QC sample analysis yielded recoveries outside QC acceptance criteria. This sample was reanalyzed.
- L LCS analysis yielded high recoveries, indicating a potential high bias. No target analytes were observed above the RL in the associated samples.
- G Marginal outlier within 1% of acceptance criteria.
- r RPD value is outside method acceptance criteria.
- C Poor RPD values observed due to the non-homogenous nature of the sample.

# QUALITY ASSURANCE METHODS

## REFERENCES AND NOTES

## Report Date: 10/05/2007

- 0 Sample required dilution due to matrix interference.
- D Sample reported from a dilution.
- d Spike and/or surrogate diluted.
- E The reported concentration exceeds the instrument calibration.
- F The analyte is outside QC limits and was not detected in any associated samples in the analytical batch.
- H Continuing Calibration Verification (CCV) standard is not associated with the samples reported.
- q See the subcontract final report for qualifier explanation. W - The MS/MSD recoveries are outside QC acceptance criteria because the amount spiked is much less than
- the amount found in the sample.
- K High recovery will not affect the quality of reported results.
- Z See case narrative.

## Explanation of Organic QC Outliers:

- e Method blank analysis yielded phthalate concentrations above the RL. Phthlates are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
- S Sample reanalyzed/reextracted due to poor surrogate recovery. Reanalysis confirmed original analysis indicating a possible matrix interference.
- T Sample analysis yielded poor surrogate recovery.
- R The RPD between the two GC columns is greater than 40% and no anomalies are present. The higher result is reported as per EPA Method 8000B.
- I The RPD between the two GC columns is greater than 40% and anomalies are present. The lower of the two results has been reported.
- X Gaseous compound. In-house QC limits are advisory.
- Y Ketone compounds have poor purge efficiency. In-house QC limits are advisory.
- f Surrogate not associated with reported analytes.

Explanation of Inorganic QC Outliers:

- ${\tt Q}$  Method blank analysis yielded target analytes above the RL. Associated sample results are greater than 10 times the concentrations observed in the method blank.
- V The RPD control limit for sample results less than 5 times the RL is +/- the RL value. Sample and duplicate results are within method acceptance criteria.
- e Serial dilution failed due to matrix interference.
- g Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery
- being below 85 percent. The correlation coefficent for the MSA is greater than or equal to 0.995.
- s BOD/cBOD seed value is not within method acceptance criteria. Due to the nature of the test method, the sample cannot be reanalyzed.
- 1 BOD/cBOD LCS value is not within method acceptance criteria. Due to the nature of the test method, sample cannot be reanalyzed.
- N Spiked sample recovery is not within control limits.
- n Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike
- recovery being below 85 percent. The correlation coefficient for the MSA is less than 0.995.
- \* Duplicate analysis is not within control limits.

Abbreviations:

- Batch Designation given to identify a specific extraction, digestion, preparation, or analysis set.
- CCV Continuing Calibration Verification
- CRA Low level standard check GFAA, Mercury
- CRI Low level standard check ICP
- Dil Fac Dilution Factor Secondary dilution analysis
- DLFac Detection Limit Factor
- DU Duplicate
- EB Extraction Blank (TCLP, SPLP, etc.)
- ICAL Initial Calibration

## QUALITY ASSURANCE METHODS

## REFERENCES AND NOTES

#### Report Date: 10/05/2007

- Initial Calibration Blank ICB ICV - Initial Calibration Verification - Interference Check Sample A - ICP - Interference Check Sample B - ICP ISA ISB - Laboratory Control Duplicate - Laboratory Control Sample LCD LCS MB - Method Blank - Method Duplicate MD MDL - Method Detection Limit MOL - Method Quantitation Limit (TRRP) MS - Matrix Spike MSD - Matrix Spike Duplicate ND - Not Detected PB - Preparation Blank PREPF - Preparation Factor RL - Reporting Limit RPD - Relative Percent Difference RRF - Relative Response Factor - Retention Time RT SQL - Sample Quantitation Limit (TRRP) TIC - Tentatively Identified Compound

Method References:

- (1) EPA 600/4-79-020 Methods for the Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-94-111 Methods for the Determination of MEtals in Environmental Samples, Supplement I, May 1994.
- (3) EPA SW846 Test Methods for Evaluating Solid Waste, Third Edition, September 1986; Update I July 1992; Update II, September 1994, Update IIA August 1993; Update IIB, January 1995; Update III, December 1996, Update IVA January 1998, Update IVB November 2000.
- (4) Standard Methods for the Examination of Water and Wastewater, 16th Edition (1985), 17th Edition (1989), 18th Edition (1992), 19th Edition (1995), 20th Edition (1998).
- (5) HACH Water Analysis Handbook 3rd Edition (1997).
- (6) Federal Register, July 1, 1990 (40 CFR Part 136 Appendix A).
- (7) Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, 2nd Edition, January 1997.
- (9) Diagnosis and Improvement of Saline and Alkali Soils, Agriculture Handbook No. 60, United States Department of Agriculture, 1954.

# LABORATORY CHRONICLE

Date: 10/05/2007

CUSTOMER: Tetra I	ech, Inc.	PROJECT:	WYATT	A		1	ATTN: Charlie	Durret	
Lab ID: 342749-1	Client ID: T1A 0-6"		Date Re	cvd: 09/	22/2007	Sample	Date: 09/20/2	007	
METHOD	DESCRIPTION		RUN#	BATCH#	PREP BT	# (S)	DATE/TIME A	NALYZED	DILUTION
SW-846 3550B	Extraction (Ultrasonic) DBO		1	185984			09/24/2007	1000	DIDUTION
SM-846 9056	Ton Chromatography Analysis		1	186137			09/26/2007	0018	1 0000
SW-040 9000	Charles Conductores & 25 degrees C		1	106141			09/20/2007	1720	1.0000
EPA 120.1	Specific Conductance @ 25 degrees C		1	106000	105004		09/26/2007	2125	
SW-846 8015B	Total Extractable Petroleum Hydrocard	ons	1	186220	185984		09/25/2007	2125	1 0000
SW-846 8015B	Total Volatile Petroleum Hydrocarbons		1	186215			09/26/2007	1707	1.0000
SW-846 8260B	Volatile Organics		1	186047			09/24/2007	1524	1.00000
Lab ID: 342749-2	Client ID: T1B 0-6"		Date Re	cvd: 09/	22/2007	Sample	Date: 09/20/2	007	
METHOD	DESCRIPTION		RUN#	BATCH#	PREP BT	#(S)	DATE/TIME A	NALYZED	DILUTION
SW-846 3550B	Extraction (Ultrasonic) DRO		1	185984			09/24/2007	1000	
SW-846 9056	Ion Chromatography Analysis		1	186137			09/26/2007	0040	1.0000
EPA 120.1	Specific Conductance @ 25 degrees C		1	186141			09/26/2007	1720	
SW-846 8015B	Total Extractable Petroleum Hydrocarb	ons	1	186220	185984		09/26/2007	1156	30
SW 040 0015D	Total Malatila Detroloum Hudrogarbons	0115	1	106215	100004		09/26/2007	1756	250.00
SW-846 8013B	Iotal volatile Petroleum Hydrocarbons		1	100213			09/20/2007	1750	230.00
SW-846 8260B	Volatile Organics		1	186047			09/24/2007	2308	5.00000
SW-846 8260B	Volatile Organics		1	186224			09/26/2007	1936	1.00000
Lab ID: 342749-3	Client ID: T1C 0-6"		Date Re	cvd: 09/	/22/2007	Sample	Date: 09/20/2	007	
METHOD	DESCRIPTION		RUN#	BATCH#	PREP BT	#(S)	DATE/TIME A	NALYZED	DILUTION
SW-846 3550B	Extraction (Ultrasonic) DRO		1	185984			09/24/2007	1000	
SW-846 9056	Ton Chromatography Analysis		1	186137			09/26/2007	0103	1.0000
EPA 120 1	Specific Conductance & 25 degrees C		1	186141			09/26/2007	1720	110000
CHLOAC OO1ED	Tetal Estratable Detroleum Hidroganh		1	100141	105004		09/20/2007	2252	
SW-846 8015B	Total Extractable Petroleum Hydrocard	ons	1	186220	185984		09/25/2007	2253	1 0000
SW-846 8015B	Total Volatile Petroleum Hydrocarbons		1	186215			09/26/2007	1/32	1.0000
SW-846 8260B	Volatile Organics		1	186047			09/24/2007	1733	1.00000
Lab ID: 342749-4	Client ID: T1A 5'		Date Re	cvd: 09/	/22/2007	Sample	Date: 09/20/2	007	
METHOD	DESCRIPTION		RUN#	BATCH#	PREP BT	#(S)	DATE/TIME A	NALYZED	DILUTION
SW-846 1312	1312 SPLP Zero Headspace Extraction		1	186005			09/24/2007	1500	
SW-846 3550B	Extraction (Ultrasonic) DRO		1	185984			09/24/2007	1000	
EPA300 0 REV2	Ton Chromatography Analysis		1	186078			09/25/2007	1522	
CH OAC ODEC	Ton Chromatography Analysis		1	100170			00/20/2007	0125	1 0000
SW-846 9056	ton chromatography Analysis		1	100137			09/26/2007	0125	1.0000
EPA 120.1	Specific Conductance @ 25 degrees C		1	186141			09/26/2007	1720	
SW-846 1312	Synthetic Precipitate Leachate Procee	ure	1	185998			09/24/2007	1500	
SW-846 8015B	Total Extractable Petroleum Hydrocarb	ons	1	186220	185984		09/25/2007	2337	
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	Pag. 199	1	186215			09/25/2007	1904	1.0000
SW-846 8260B	Volatile Organics		1	186047			09/24/2007	1707	1.00000
SW-846 8260B	Volatile Organics		1	186090	186005		09/25/2007	1511	1.00000
Lab ID: 342749-5	Client ID: T1B 5'		Date Re	cvd: 09/	22/2007	Sample	Date: 09/20/2	007	
METHOD	DESCRIPTION		RIIN#	BATCH#	DRED BT	# (S)	DATE /TIME A	NALYZED	DILITTON
CM-046 1312	1312 SDLD Zoro Hoodenago Extraction		1	196005	FILE DI	#(5)	09/24/2007	1500	DIDOITON
SW-040 1512	TSTZ SFLF ZETO HEADSpace Exclaction		1	1050003			09/24/2007	1000	
SW-846 3550B	Extraction (Ultrasonic) DRO		1	185984			09/24/2007	1000	
EPA300.0 REV2.	Ion Chromatography Analysis		1	186078			09/25/2007	1538	
SW-846 9056	Ion Chromatography Analysis		1	186137			09/26/2007	0148	1.0000
EPA 120.1	Specific Conductance @ 25 degrees C		1	186141			09/26/2007	1720	
SW-846 1312	Synthetic Precipitate Leachate Proceed	lure	1	185998			09/24/2007	1500	
SW-846 8015B	Total Extractable Petroleum Hydrocarb	ons	1	186220	185984		09/26/2007	0021	
SW-846 8015B	Total Volatile Petroleum Hydrocarbons		1	186215	255654		09/25/2007	1928	1,0000
SW-846 9260D	Volatile Organice	2	1	186047			09/24/2007	1750	1 00000
CW_040 0200D	Volatile Organica		1	100047	100000		00/25/2007	1600	1.00000
5W-840 820UB	volatile Organics		1	180030	190002		09/25/2007	1023	1.00000
Lab ID: 342749-6	Client ID: T1C 5'		Date Re	cvd: 09/	22/2007	Sample	Date: 09/20/2	007	
	DECODIDATION		TOT TO THE	TO THE OTHER TH	DOTTO THE	11 1 01	DAME / TTAKE A	TR T LEATING	DTTTTTTO
METHOD	DESCRIPTION		RON#	BATCH#	PRED RL	# (S)	DATE/TIME A	NALYZED	DILUTION

# LABORATORY CHRONICLE

Date: 10/05/2007

CUSTOMER: Tetra Te	ech, Inc.	PROJECT:	WYATT	A		P	ATTN: Charlie H	Durret	
Lab ID. 342749-6	Client ID. TIC 5!		Date Re	cvd· 09	22/2005	Sample	Date: 09/20/20	107	
METHOD	DESCRIPTION		DIM#	DATCU#	DDFD PT	# (g)	DATE /TTME A	UNI VZED	DITUTTON
SW-946 3550P	Extraction (Illtraconic) DPO		1	19509/	FIGE DI	# (0)	09/24/2007	1000	DIDUITOR
SW-040 SSSUB	Ten Chromategraphy Analysis		1	106070			09/24/2007	1625	
CW 946 DOE6	Ton Chromatography Analysis		1	106127			09/23/2007	0210	1 0000
EDA 120 1	Charling Conductoria () 25 degrees (		1	106141			09/26/2007	1720	1.0000
CW 046 1212	Specific Conductance @ 25 degrees C	church	1	105000			09/20/2007	1500	
SW-046 1312	Synchetic Precipitate Leachate Proce	edure	1	100000	105004		09/24/2007	1500	
SW-846 8015B	Total Extractable Petroleum Hydrocal	cons	1	106220	100984		09/26/2007	0105	1 0000
SW-846 8015B	Total Volatile Petroleum Hydrocarbor	15	1	186215			09/25/2007	1952	1.0000
SW-846 8260B	Volatile Organics		1	186047			09/24/2007	1825	1.00000
SW-846 8260B	Volatile Organics		1	186090	186005		09/25/2007	1655	1.00000
Lab ID: 342749-7	Client ID: T2A 0-6"		Date Re	cvd: 09/	22/2007	Sample	Date: 09/20/20	007	
METHOD	DESCRIPTION		RUN#	BATCH#	PREP BT	#(S)	DATE/TIME AN	VALYZED	DILUTION
SW-846 3550B	Extraction (Ultrasonic) DRO		1	186054			09/25/2007	1000	
SW-846 9056	Ion Chromatography Analysis		1	186137			09/26/2007	0233	1.0000
EPA 120.1	Specific Conductance @ 25 degrees C		1	186141			09/26/2007	1720	
SW-846 8015B	Total Extractable Petroleum Hydrocan	cons	1	186227	186054		09/26/2007	1453	
SW-846 8015B	Total Volatile Petroleum Hydrocarbor	ns	1	186215			09/25/2007	2155	1.0000
SW-846 8260B	Volatile Organics		1	186047			09/24/2007	1850	1.00000
Lab ID: 342749-8	Client ID: T2B 0-6"		Date Re	cvd: 09/	22/2007	Sample	Date: 09/20/20	007	
METHOD	DESCRIPTION		RUN#	BATCH#	PREP BT	# (S)	DATE/TIME AN	VALYZED	DILUTION
SW-846 3550B	Extraction (Illtrasonic) DBO		1	186054	THE DI	" (0)	09/25/2007	1000	Difforton
SW-846 9056	Ton Chromatography Analysis		1	186137			09/26/2007	0255	1 0000
EDA 120 1	Specific Conductores & 25 degrees C		1	1061/1			09/26/2007	1720	1.0000
EFA 120.1	Specific conductance @ 25 degrees c	cheng	1	100141	100054		09/26/2007	1527	20
SW-846 8013B	Total Extractable Petroleum Hydrocal	DONS	1	100227	100034		09/26/2007	1007	20
SW-846 8260B	Volatile Organics	15	1	186118			09/25/2007	2220	1.00000
Lab ID: 342749-9	Client ID: T2C 0-6"		Date Re	cvd: 09/	22/2007	Sample	Date: 09/20/20	007	1
METHOD	DESCRIPTION		RUN#	BATCH#	PREP BT	#(S)	DATE/TIME A	VALYZED	DILUTION
SW-846 3550B	Extraction (Ultrasonic) DRO		1	186054			09/25/2007	1000	
SW-846 9056	Ion Chromatography Analysis		1	186137			09/26/2007	0318	1.0000
EPA 120.1	Specific Conductance @ 25 degrees C		1	186141			09/26/2007	1720	
SW-846 8015B	Total Extractable Petroleum Hydrocan	rbons	1	186227	186054		09/27/2007	1034	5
SW-846 8015B	Total Volatile Petroleum Hydrocarbor	IS	1	186215			09/25/2007	2245	1.0000
SW-846 8260B	Volatile Organics		1	186047			09/24/2007	1916	1.00000
Lab ID: 342749-10	Client ID: T2A 5'		Date Re	cvd: 09/	22/2007	Sample	Date: 09/20/20	007	
METHOD	DESCRIPTION		RUN#	BATCH#	PREP BT	# (S)	DATE/TIME AN	VALYZED	DILUTION
SW-846 1312	1312 SPLP Zero Headspace Extraction		1	186005			09/24/2007	1500	
SW-846 3550B	Extraction (IIItrasonic) DRO		1	185984			09/24/2007	1000	
EPA300.0 REV2.	Ton Chromatography Analysis		1	186112			09/26/2007	0941	
SW-846 9056	Ion Chromatography Analysis		1	186137			09/26/2007	0340	1 0000
EDA 120 1	Specific Conductores & 25 degrees C		1	1061/1			09/26/2007	1720	1.0000
CH_046 1210	Specific Conductance & 25 degrees C	deres a	1	105000			09/20/2007	1500	
SW-046 1312	Synchetic Precipitate Leachate Proce	aure	1	100000	105004		09/24/2007	1500	
SW-846 8015B	Total Extractable Petroleum Hydrocal	coons	1	186220	185984		09/26/2007	0149	1 0000
SW-846 8015B	Total Volatile Petroleum Hydrocarbor	ls	1	186215			09/25/2007	2309	1.0000
SW-846 8260B	Volatile Organics		1	186047	100005		09/24/2007	1942	1.00000
SW-846 8260B	Volatile Organics		1	186090	186005		09/25/2007	1721	1.00000
Lab ID: 342749-11	Client ID: T2B 5'		Date Re	cvd: 09/	22/2007	Sample	Date: 09/20/20	007	
METHOD	DESCRIPTION		RUN#	BATCH#	PREP BT	#(S)	DATE/TIME AN	VALYZED	DILUTION
SW-846 1312	1312 SPLP Zero Headspace Extraction		1	186005			09/24/2007	1500	
SW-846 3550B	Extraction (Ultrasonic) DRO		1	185984			09/24/2007	1000	
EPA300.0 REV2.	Ion Chromatography Analysis		1	186112			09/26/2007	1028	

# LABORATORY CHRONICLE

Date: 10/05/2007

CUSTOMER: Tetra Tech, Inc.		PROJECT: WYATT A			1	ATTN: Charlie Durret			
Lab ID: 342749-11	Client ID: T2B 5'		Date Re	cvd: 09/	22/2007	Sample	Date: 09/20/2	007	
METHOD	DESCRIPTION		RUN#	BATCH#	PREP BT	# (S)	DATE/TIME A	VALYZED	DILUTION
SW-846 9056	Ion Chromatography Analysis		1	186137			09/26/2007	0555	1.0000
EPA 120 1	Specific Conductance @ 25 degrees C		1	186141			09/26/2007	1720	
SW-846 1312	Synthetic Precipitate Leachate Proce	dure	1	185998			09/24/2007	1500	
SW-046 0015D	Total Extractable Detroloum Hudrocar	bong	1	196220	10500/		09/25/2007	1057	
SW-040 0015B	metal Valetila Detuslaum Underschart	DOIIS	1	100220	100904		09/25/2007	2224	1 0000
SW-846 8015B	Total volatile Petroleum Hydrocarbon	S	1	186215			09/25/2007	2334	1.0000
SW-846 8260B	Volatile Organics		1	186047			09/24/2007	2008	1.00000
SW-846 8260B	Volatile Organics		1	186090	186005		09/25/2007	1747	1.00000
Lab ID: 342749-12	Client ID: T2C 5'		Date Re	cvd: 09/	/22/2007	Sample	Date: 09/20/2	007	
METHOD	DESCRIPTION		RUN#	BATCH#	PREP BT	#(S)	DATE/TIME A	VALYZED	DILUTION
SW-846 1312	1312 SPLP Zero Headspace Extraction		1	186005			09/24/2007	1500	
SW-846 3550B	Extraction (Ultrasonic) DRO		1	185984			09/24/2007	1000	
EPA300.0 REV2.	Ion Chromatography Analysis		1	186112			09/26/2007	1044	
SW-846 9056	Ton Chromatography Analysis		1	186137			09/26/2007	0640	1 0000
EDA 120 1	Specific Conductores & 25 degrees C		1	196141			09/26/2007	1720	1.0000
CH 046 1212	Specific Conductance & 25 degrees C	Acres	1	105000			09/20/2007	1500	
SW-846 1312	Synthetic Precipitate Leachate Proce	aure	1	185998			09/24/2007	1500	
SW-846 8015B	Total Extractable Petroleum Hydrocar	bons	1	186220	185984		09/26/2007	0233	
SW-846 8015B	Total Volatile Petroleum Hydrocarbon	S	1	186215			09/25/2007	2358	1.0000
SW-846 8260B	Volatile Organics		1	186047			09/24/2007	2033	1.00000
SW-846 8260B	Volatile Organics		1	186090	186005		09/25/2007	1813	1.00000
Lab ID: 342749-13	Client ID: T3A 0-6"		Date Re	cvd: 09/	/22/2007	Sample	Date: 09/20/20	007	
METHOD	DESCRIPTION		RIIN#	BATCH#	PREP BT	# (S)	DATE /TTME A	VALYZED	DILITION
SW-846 3550B	Extraction (IIItrasonic) DBO		1	186054	LIGE DI	11 (0)	09/25/2007	1000	DIDOITON
SW-040 3350B	Lan Chromatography Analyzia		1	106127			09/25/2007	0703	1 0000
SW-046 9056	Ton Chromatography Analysis		1	100137			09/26/2007	1700	1.0000
EPA 120.1	Specific Conductance @ 25 degrees C	1.00	1	186141			09/26/2007	1720	
SW-846 8015B	Total Extractable Petroleum Hydrocar	bons	1	186227	186054		09/26/2007	1706	20
SW-846 8015B	Total Volatile Petroleum Hydrocarbon	S	1	186215			09/26/2007	0023	1.0000
SW-846 8260B	Volatile Organics		1	186047			09/24/2007	2059	1.00000
Lab ID: 342749-14	Client ID: T3B 10'		Date Re	cvd: 09/	/22/2007	Sample	Date: 09/20/20	007	
METHOD	DESCRIPTION		RUN#	BATCH#	PREP BT	#(S)	DATE/TIME A	VALYZED	DILUTION
SW-846 1312	1312 SPLP Zero Headspace Extraction		1	186076			09/25/2007	1500	
SW-846 3550B	Extraction (Illtrasonic) DBO		1	185984			09/24/2007	1000	
ED3300 0 DE12	Ton Chromatography Analyzig		1	106112			09/26/2007	1130	
EFASUO.0 REV2.	Ton Chromatography Analysis		1	100112			09/20/2007	0705	1 0000
SW-846 9056	Ion Chromatography Analysis		1	186137			09/26/2007	0725	1.0000
EPA 120.1	Specific Conductance @ 25 degrees C	1000	1	186141			09/26/2007	1720	
SW-846 1312	Synthetic Precipitate Leachate Proce	dure	1	185998			09/24/2007	1500	
SW-846 8015B	Total Extractable Petroleum Hydrocar	bons	1	186220	185984		09/26/2007	0040	30
SW-846 8015B	Total Volatile Petroleum Hydrocarbon	S	1	186215			09/27/2007	1217	250.00
SW-846 8260B	Volatile Organics		1	186047			09/24/2007	2359	5.00000
SW-846 8260B	Volatile Organics		1	186177			09/26/2007	1517	1.00000
SW-846 8260B	Volatile Organics		1	186224			09/26/2007	2054	1.00000
Lab TD. 342749-15	Client ID. T3C 0-6"		Date Re	and . 09/	22/2005	Sample	Date: 09/20/2	07	
MERILOD	DECODIDITION		DINH	Damou#	22/2007	# (c)	Date. 09/20/2	UNT VODD	DITURTON
METHOD	DESCRIPTION Determine (III)		RUN#	BAICH#	PREP BI	#(5)	DATE/TIME A	ALIZED	DITOLION
SW-846 3550B	Extraction (Ultrasonic) DRO		1	186054			09/25/2007	1000	1. 1. 2. 20.
SW-846 9056	Ion Chromatography Analysis		1	186137			09/26/2007	0940	1.0000
EPA 120.1	Specific Conductance @ 25 degrees C		1	186141			09/26/2007	1720	
SW-846 8015B	Total Extractable Petroleum Hydrocar	bons	1	186227	186054		09/26/2007	1324	
SW-846 8015B	Total Volatile Petroleum Hydrocarbon	S	1	186215			09/27/2007	1129	1.0000
SW-846 8260B	Volatile Organics		1	186047			09/24/2007	2125	1.00000
Lab TD: 342749-16	Client ID: T4 0-6"		Date Re	cvd· 09	22/2005	Sample	Date: 09/20/2	007	
METUOD	DESCRIPTION		DITNI#	PATCU#	DDED DW	# (c)	DATE /TTME A	IAT VZED	DITIUTION
CH OAC SEEDD	Diouxifico (Ultracerie) DDO		RUN#	10COE 4	FREP BI	#(3)	DATE/TIME A	1000	DITOLION
3W-040 3350B	EXCLUCION (UITEASONIC) DRU		1	100004			09/25/2007	1000	

# LABORATORY CHRONICLE

Date: 10/05/2007

CUSTOMER: Tetra Tech, Inc.		PROJECT: WYATT A				1	ATTN: Charlie Durret			
Lab ID: 342749-16	Client ID: T4 0-6"		Date Re	cvd: 09/	/22/2007	Sample	Date: 09/20/20	007		
METHOD	DESCRIPTION		RUN#	BATCH#	PREP BT	# (S)	DATE/TIME AN	VALYZED	DILUTION	
SW-846 9056	Ton Chromatography Analysis		1	186137	0.000		09/26/2007	1003	10,000	
EPA 120 1	Specific Conductance @ 25 degrees C		1	186141			09/26/2007	1720	10.000	
SW-846 8015B	Total Extractable Petroleum Hydrocar	hons	1	186227	186054		09/27/2007	1034	40	
SW-046 0015D	Total Valatila Detroloum Hudrogarbon	C	1	106215	100051		09/27/2007	1242	250.00	
CM 046 0010D	Velatile Organica	.5	1	106047			00/25/2007	0025	5 00000	
SW-846 8260B	Volatile Organics		1	10004/			09/25/2007	0025	5.00000	
SW-846 8260B	Volatile Organics		1	186224			09/26/2007	2120	1.00000	
SW-846 8260B	Volatile Organics		1	186224			09/27/2007	1758	10	
Lab ID: 342749-17	Client ID: T4 14'		Date Re	cvd: 09/	/22/2007	Sample	Date: 09/20/20	007		
METHOD	DESCRIPTION		RUN#	BATCH#	PREP BT	#(S)	DATE/TIME AN	VALYZED	DILUTION	
SW-846 1312	1312 SPLP Zero Headspace Extraction		1	186501			10/02/2007	1500		
SW-846 3550B	Extraction (Ultrasonic) DRO		1	185984			09/24/2007	1000		
EPA300.0 REV2.	Ion Chromatography Analysis		1	186112			09/26/2007	1146	10	
SW-846 9056	Ton Chromatography Analysis		1	186137			09/26/2007	1048	10.000	
EPA 120 1	Specific Conductance @ 25 degrees C		1	186141			09/26/2007	1720	10.000	
CM_046 1312	Sumthatia Draginitata Jasabata Drago	duro	1	105000			09/20/2007	1500		
SW-040 1512	Tetal Estratable Detroloum Undrogan	hong	1	100000	105004		00/24/2007	1150	50	
SW-846 8015B	Total Extractable Petroleum Hydrocar	DONS	1	186220	185984		09/26/2007	1156	00	
SW-846 8015B	Total Volatile Petroleum Hydrocarbon	S	1	186215			09/2//2007	1406	250.00	
SW-846 8260B	Volatile Organics		1	186047			09/24/2007	2150	1.00000	
SW-846 8260B	Volatile Organics		1	186613	186501		10/03/2007	1548	1.00000	
Lab ID: 342749-18	Client ID: T5 0-6"		Date Re	cvd: 09/	/22/2007	Sample	Date: 09/20/20	007		
METHOD	DESCRIPTION		RUN#	BATCH#	PREP BT	# (S)	DATE/TIME AN	VALYZED	DILUTION	
SW-846 3550B	Extraction (Ultrasonic) DRO		1	186054			09/25/2007	1000	and a second second	
SW-846 9056	Ton Chromatography Analysis		1	186137			09/26/2007	1155	1 0000	
EDA 120 1	Specific Conductance & 25 degrees C		1	186141			09/26/2007	1720	1.0000	
CH 946 901ED	Tetel Extractable Detroloum Underson	hana	1	106007	100054		09/20/2007	1110	E	
SW-846 8015B	Total Extractable Petroleum Hydrocar	DONS	1	100227	100004		09/21/2007	1110	1 0000	
SW-846 8015B SW-846 8260B	Volatile Organics	S	1	186215			09/24/2007	2216	1.00000	
T.1. TD: 040740 10					100 10005	a	D. t. 00/00/00	0.07		
Lab ID: 342/49-19	Client ID: 15 5		Date Re	cva: 09/	22/2001	Sample	Date: 09/20/20	107		
METHOD	DESCRIPTION		RUN#	BATCH#	PREP BT	#(S)	DATE/TIME A	ALYZED	DILUTION	
SW-846 1312	1312 SPLP Zero Headspace Extraction		1	186076			09/25/2007	1500		
SW-846 3550B	Extraction (Ultrasonic) DRO		1	185984			09/24/2007	1000		
EPA300.0 REV2.	Ion Chromatography Analysis		1	186112			09/26/2007	1201		
SW-846 9056	Ion Chromatography Analysis		1	186137			09/26/2007	1218	10.000	
EPA 120.1	Specific Conductance @ 25 degrees C		1	186141			09/26/2007	1720		
SW-846 1312	Synthetic Precipitate Leachate Proce	dure	1	185998			09/24/2007	1500		
SW-846 8015B	Total Extractable Petroleum Hydrocar	hons	1	186220	185984		09/25/2007	2337		
SW-046 0015D	Total Volatila Detroloum Hudrogarbon	CONS	1	106215	100004		09/26/2007	2007	1 0000	
SW-046 0013B	Total volatile Petroleum Hydrocarbon	5	1	100210			09/26/2007	2220	1.0000	
SW-846 8260B	Volatile Organics		1	186047			09/24/2007	2242	1.00000	
SW-846 8260B	Volatile Organics		1	186177			09/26/2007	1701	1.00000	
Lab ID: 342749-20	Client ID: T6 0-6"		Date Re	cvd: 09/	/22/2007	Sample	Date: 09/20/20	007		
METHOD	DESCRIPTION		RUN#	BATCH#	PREP BT	#(S)	DATE/TIME AN	VALYZED	DILUTION	
SW-846 3550B	Extraction (Ultrasonic) DRO		1	186054			09/25/2007	1000		
SW-846 9056	Ion Chromatography Analysis		1	186137			09/26/2007	1240	10,000	
EPA 120 1	Specific Conductance @ 25 degrees C		1	186141			09/26/2007	1720		
SW-846 0015D	Total Extractable Detraloum Underson	bong	1	186227	19605/		09/26/2007	1706	20	
SW-040 0013D	Total Extractable Petroleum nydrocar	DOLLS	1	100227	100004		09/20/2007	1220	20	
SW-846 8013B	TOLAT VOLATILE PETROLEUM Hydrocarbon	5	1	186215			09/21/2007	1330	250.00	
SW-846 8260B	Volatile Organics		1	186118			09/25/2007	2315	5.00000	
SW-846 8260B	Volatile Organics		1	186224			09/26/2007	2146	1.00000	
Lab ID: 342749-21	Client ID: T6 10'		Date Re	cvd: 09/	/22/2007	Sample	Date: 09/20/20	007		
METHOD	DESCRIPTION		RUN#	BATCH#	PREP BT	# (S)	DATE/TIME AN	ALYZED	DILUTION	
SW-846 1312	1312 SPLP Zero Headspace Extraction		1	186076			09/25/2007	1500		
	and see monopule included of			200010						

# LABORATORY CHRONICLE

Date: 10/05/2007

CUSTOMER: Tetra Tech, Inc.		PROJECT: WYATT	A		9	ATTN: Charlie Durret		
Lab ID: 342749-21	Client ID. T6 10!	Date Re	cud: 09	/22/2005	Sample	Date: 09/20/20	007	
METHOD	DESCRIPTION	DINI#	DATICU#	DDED DT	# (c)	DATE /TTME A	UNI VZED	DITUTTON
CW-046 2550D	Extraction (IIItraconic) DPO	NOIN#	105004	FREE DI	# (5)	00/24/2007	1000	DITOLION
SW-040 SSSOB	Exclaction (ortrasonic) DRO	1	106110			09/24/2007	1017	
EPASOD.0 REV2.	Ton Chromatography Analysis	1	100112			09/26/2007	1217	10 000
SW-846 9056	Conductorea & 25 degrees C	1	106141			09/26/2007	1720	10.000
CM 046 1212	Specific Conductance @ 25 degrees C	huma 1	105000			09/20/2007	1500	
SW-846 1312	Synthetic Precipitate Leachate Proceed	iure 1	100000	105004		09/24/2007	1500	
SW-846 8015B	Total Extractable Petroleum Hydrocard	xons 1	106220	185984		09/26/2007	0021	1 0000
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	3 1	106213			09/26/2007	1504	1.0000
SW-046 0260B	Volatile Organics	1	100110			09/25/2007	1304	1.00000
SW-846 8260B	Volatile Organics	1	1861//			09/26/2007	1/2/	1.00000
Lab ID: 342749-22	Client ID: T3A 5'	Date Re	cvd: 09/	/22/2007	Sample	Date: 09/20/20	007	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME AN	NALYZED	DILUTION
SW-846 1312	1312 SPLP Zero Headspace Extraction	1	186076			09/25/2007	1500	
SW-846 3550B	Extraction (Ultrasonic) DRO	1	185984			09/24/2007	1000	
EPA300.0 REV2.	Ion Chromatography Analysis	1	186112			09/26/2007	1233	10
SW-846 9056	Ion Chromatography Analysis	1	186137			09/26/2007	1410	10.000
EPA 120.1	Specific Conductance @ 25 degrees C	1	186141			09/26/2007	1720	
SW-846 1312	Synthetic Precipitate Leachate Proces	lure 1	185998			09/24/2007	1500	
SW-846 8015B	Total Extractable Petroleum Hydrocark	oons 1	186220	185984		09/26/2007	0040	10
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	, 1	186215			09/26/2007	2314	1.0000
SW-846 8260B	Volatile Organics	1	186118			09/25/2007	1530	1.00000
SW-846 8260B	Volatile Organics	1	186177			09/26/2007	1753	1.00000
Lab TD. 342749-23	Client ID. T3B 10'	Date Re	and · 09	22/2007	Sample	Date: 09/20/20	007	
METHOD	DESCRIPTION	PIN#	BATCH#	DRED BT	# (S)	DATE /TIME AT	MALV7FD	DILUTION
SW-846 1312	1312 SPLP Zero Headsmace Extraction	1	186076	LIGH DI	# (0)	09/25/2007	1500	DIDUTION
SW-846 3550B	Extraction (Illtraconic) DRO	1	185984			09/24/2007	1000	
EDA300 0 DEV2	Ion Chromatography Analysis	1	196112			09/26/2007	1249	10
SW-846 0056	Ton Chromatography Analysis	1	196137			09/26/2007	1/33	10 000
EDA 120 1	Specific Conductance Q 25 degrees C	1	106141			09/26/2007	1720	10.000
CW_046 1212	Sumthatia Draginitata Laadhata Dragoo	have 1	105000			09/20/2007	1500	
SW-040 1312	Synchecic Precipitate Leachate Proced	lure 1	100000	105004		09/24/2007	0140	
SW-846 8015B	Total Extractable Petroleum Hydrocard	i i	100220	100904		09/26/2007	0149	1 0000
SW-846 8015B	Total volatile Petroleum Hydrocarbons	5 1	106213			09/26/2007	2338	1.0000
SW-846 8260B	Volatile Organics	1	100177			09/25/2007	1648	1,00000
SW-846 8260B	volatile Organics	1	1801//			09/26/2007	1451	1.00000
Lab ID: 342749-24 Client ID: T3C 5'		Date Re	cvd: 09/	/22/2007	Sample	Date: 09/20/20	007	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME AN	NALYZED	DILUTION
SW-846 1312	1312 SPLP Zero Headspace Extraction	1	186076			09/25/2007	1500	
SW-846 3550B	Extraction (Ultrasonic) DRO	1	185984			09/24/2007	1000	
EPA300.0 REV2.	Ion Chromatography Analysis	1	186112			09/26/2007	1304	10
SW-846 9056	Ion Chromatography Analysis	1	186137			09/26/2007	1455	10.000
EPA 120.1	Specific Conductance @ 25 degrees C	1	186141			09/26/2007	1720	
SW-846 1312	Synthetic Precipitate Leachate Proceed	lure 1	185998			09/24/2007	1500	
SW-846 8015B	Total Extractable Petroleum Hydrocark	oons 1	186220	185984		09/26/2007	0233	
SW-846 8015B	Total Volatile Petroleum Hydrocarbons	3 1	186215			09/27/2007	0003	1.0000
SW-846 8260B	Volatile Organics	1	186118			09/25/2007	1714	1.00000
SW-846 8260B	Volatile Organics	1	186177			09/26/2007	1819	1.00000

# Received by OCD: 2/12/2021 2:59:55 PM

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RECORD	LAB JOB NO.	REMARKS/PRECAUTIONS	No SPLP CLATEX	in splip ci matex	56 20 5880 9439	HER CT JAPT DATE DATE	DATE IPANY: TIME	STL822H-600 (
OF CUSTODY	Sooro	× × × × × × × × × × × × × × × × × × ×	×××× *********************************			S □ ROUTINE X 01 3. Relinquished By Signature: Printed Name/Con	1: RECEIVED BY: SIGNATURE: PRINTED NAME/CON	
	A OF CONTRINERS					DATE DATE TIME	DATE 0-22-2 TIME 9	
	PROJECT INFORMATION PROJECT NAME/NUMBER: VO 4 CHT A BILLING INFORMATION BILL TO: Con eco Phyllips ADDRESS: Business Unit	PHONE: FAX: PO NO: DATE SAMPLE CONTAINER PRESERV DATE TIME MATRIX CONTAINER PRESERV	12070 840 50.1	20147 925 50.1 20147 940 50.1 20147 1026 50.1	120/27 955 Sa. 1 120/27 955 Sa. 1 120/05 125 050. 1 120/05 125 050. 1 120/05 125 050. 1 101 101 101 101 101 501 501	DURS	1: RECEIVED BY: SIGNATURE: PRINTED NAME/COMPANY:	STL Houston 6310 Rothway Drive
	COMPANY: TCAVER INFORMATION COMPANY: TCAVE TC-UN SEND REPORT TO: C DUNIERA ADDRESS: 1703 W INQUERIX, A MDRESS: 1703 W INQUERIX, A	PHONE: 432-686-8061 FAX: 432-686-8065 SAMPLE NO SAMPLE DESCRIPTION S	T18 0-611 31	T18 51 T16 51 T26 51	720 0-6" 64 Samples: Durreto	REQUIRED TURNAROUND*	1. RECEIVED BY: DATE DATE SIGNATURE: PRINTED NAME/COMPANY: TIME	

**ΞϿ**ЯΑΗϽЯUZ ΞЯΙUD∃Я YAM ONUOЯANЯUT HZUЯ\*

Page 107 of 265

#### age 108 of 265 (000) (009-HZZZZZ **REWARKS/PRECAUTIONS** DATE TIME TIME DATE LAB JOB NO. 088888 439 242749 e AIRBILL NO : 5620 5380 RECORD Ο PRINTED NAME/COMPANY: **PRINTED NAME/COMPANY:** C ROUTINE X OTHER CUSTODY **3. RELINQUISHED BY:** X X **1. RECEIVED BY:** SIGNATURE: SIGNATURE: $\boldsymbol{X}$ REQUEST HOD u O 22-1 CI 10 DAYS TIME S CHAIN Ŷ DATE DATE X **NUMBER OF CONTRINERS CONTAINER** | PRESERV 5 DAYS 1 FE Z 6310 Rothway Drive Houston, TX 77040 STL Houston PROJECT NAME/NUMBER: JUYJOS & E Bright PROJECT INFORMATION **BILLING INFORMATION** PRINTED NAME/COULDANTY: T.A. 4 5 **72 HOURS** Rechel PO NO: PRINTED NAME/COMPANY: Business SHIPWENT METHOD: SAMPLE enocethil 2. RELINQUISHED BY: 10 20 50 **1. RECEIVED BY:** 48 HOURS 10201 SAMPLE 105 5 SIGNATURE: SIGNATURE: hi o la Rol ADDRESS: 12007 BILL TO: SAMPLE 9/201 PHONE: 5/24/07/17/17/14 localb 1070 24 HOURS FAX: 19/21/6 Sio) J DATE DATE TIME ALE 9/23/07 2570 R/Nder Uril SAMPLE DESCRIPTION SAME DAY 432-666-6085 **CUSTOMER INFORMATION** X al - 8n6 ちとう D べん Ż 5 S 2-0 PRINTED NAME/COMPANY: 4 PRINTED NAME/COMPANY - Office **REQUIRED TURNAROUND**\* ò ζ I, RELINQUISHED BY: 132-1 ADDRESS: 1つっろ SEND REPORT TO: RECEIVED BY: COMPANY: ---SIGNATURE 1 ゥ SIGNATURE: SAMPLE NO. 202 A M SAMPLER4 3 Ľ PHONE: Ы, m ž

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rpjscki Job Sa	mple Receipt Checklist Report	٧2
Job Number.: 342749 Location.: 57216 Check Customer Job ID: Job Project Number.: 99003817 Project Description, Customer: Tetra Tech,Inc.	List Number.: 1 Description.: Check List Date.: 09/24/2007 : Conoco Phillips Contact.: Charlie Durret	Date of the Report: 09/24/2007 Project Manager: sgk
Questions ?	(Y/N) Comments	
Chain of Custody Received?	Y	
If "yes", completed properly?	Y	
Custody seal on shipping container?	N q-12-0)	
If "yes", custody seal intact?		
Custody seals on sample containers?	. N	
If "yes", custody seal intact?		
Samples chilled?	•• Y	
Temperature of cooler acceptable? (4 deg C +/- 2	).Y 5.9	
If "no", is sample an air matrix?(no temp rea	ı.)	
Thermometer ID	Y 463	
Samples received intact (good condition)?	Y	
Volatile samples acceptable? (no headspace)	••	
Correct containers used?	Y	
Adequate sample volume provided?	Y	
Samples preserved correctly?	Y	
Samples received within holding-time?	Y	
Agreement between COC and sample labels?	Y	
Radioactivity at or below background levels?		
Additional		
Comments		
Sample Custodian Signature/Date	Y mt	· · ·

Page 1

# APPENDIX F Email Correspondence

You replied on 12/3/2007 11:44 AM.

# Durrett, Charles

From:	Trishia_Bad_Bear@nm.blm.gov [Trishia_Bad_Bear@nm.blm.gov]	Sent: Mon 12/3/2007 10:54 AM
То:	Durrett, Charles	
Cc:		
Subject:	Re: ConocoPhillips Wyatt A	
Attachments:		

Mr. Durrett,

I've reviewed your proposed work plan and don't see any concerns. Upon approval from NMOCD, please let me know when you plan on starting the dirtwork.

Thank you,

Trishia C. Bad Bear Natural Resource Specialist BLM-Hobbs Field Station 505.393.3612 office 505.390.2258 cell 505.393.4280 fax

> "Durrett, Charles" <Charles.Durrett@ To tetratech.com> <LWJohnson@state.nm.us>, <Trishia\_Bad\_Bear@nm.blm.gov> 12/03/2007 10:52 cc AM <mickey.d.garner@conocophillips.com > Subject ConocoPhillips Wyatt A

Wyatt A Federal Battery Lea County, New Mexico Unit E, Sec. 33, T17S, R33E OCD 1RP# 1518

Mr. Johnson and Ms. Bad Bear, have you had a chance to review the proposed work plan for ConocoPhillips Wyatt A Battery?

Charles Durrett | Office and Project Manager Main: 432.686.8081 | Fax: 432.686.8085 charles.durrett@tetratech.com

Tetra Tech | Complex World, Clear Solutions™ 1703 W. Industrial Ave. | Midland, TX 79701 | www.tetratech.com

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From: Durrett, Charles Sent: Wed 11/28/2007 6:39 AM To: LWJohnson@state.nm.us; Trishia\_Bad\_Bear@nm.blm.gov Cc: mickey.d.garner@conocophillips.com Subject:

Tetra Tech, Inc. is pleased to submit the attached findings report for a subsurface investigation at ConocoPhillips' Wyatt A Federal Battery crude oil release site. This work is in support of ConocoPhillips efforts to remediate a recent 21 barrel crude oil release onto an oil field road (4 x 1,100 feet) and on the back side of the battery.

If you concur with the recommendations in the report, ConocoPhillips has authorized Tetra Tech to commence work on this project immediately following receipt of your notification to proceed. Please contact me or Mr. Greg Pope, if you have any questions or require additional information.

Charles Durrett | Office and Project Manager Main: 432.686.8081 | Fax: 432.686.8085 charles.durrett@tetratech.com

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# Released to Imaging: 1/26/2022 11:49:49 AM

https://webmail.ttemi.com/exchange/cdurrett/Inbox/Re:%20ConocoPhillips%20Wyatt%20... 12/3/2007

Sou replied on 12/4/2007 2:58 PM. Durrett, Charles						
From: To: Cc:	Johnson, Larry, EMNRD [larry.johnson@state.nm.us] Durrett, Charles	Sent: Tue 12/4/2007 2:23 PM				
Subject: Attachments	RE: ConocoPhillips Wyatt A					

Charlie,

I need to point out that the chloride is still 250. You need to change this in your work plan proposal. Proceed with the work.

Larry

From: Durrett, Charles [mailto:Charles.Durrett@tetratech.com]
Sent: Monday, December 03, 2007 10:52 AM
To: Johnson, Larry, EMNRD; Trishia\_Bad\_Bear@nm.blm.gov
Cc: mickey.d.garner@conocophillips.com
Subject: ConocoPhillips Wyatt A

### Wyatt A Federal Battery

Lea County, New Mexico

Unit E, Sec. 33, T17S, R33E

OCD 1RP# 1518

Mr. Johnson andMs. Bad Bear, haveyou had a chance to review the proposed work plan for ConocoPhillips Wyatt A Battery?

Charles Durrett | Office and Project Manager Main: 432.686.8081 | Fax: 432.686.8085 charles.durrett@tetratech.com

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From: Durrett, Charles Sent: Wed 11/28/2007 6:39 AM To: LWJohnson@state.nm.us; Trishia\_Bad\_Bear@nm.blm.gov Cc: mickey.d.garner@conocophillips.com Subject:

Tetra Tech, Inc. is pleased to submit the attached findings report for a subsurface investigation at ConocoPhillips' Wyatt A Federal Battery crude oil release site. This work is in support of ConocoPhillips efforts to remediate a recent 21 barrel crude oil release onto an oil field road (4 x 1,100 feet) and on the back side of the battery.

If you concur with the recommendations in the report, ConocoPhillips has authorized Tetra Tech to commence work on this project immediately following receipt of your notification to proceed. Please contact me or Mr. Greg Pope, if you have any questions or require additional information.

Charles Durrett | Office and Project Manager Main: 432.686.8081 | Fax: 432.686.8085 charles.durrett@tetratech.com

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# APPENDIX G Closure Report (Tetra Tech, September 8, 2008)



September 5, 2008

Mr. Larry Johnson New Mexico Oil Conservation Division 1625 N. French Dr. Hobbs, NM 88240

Ms. Trisha Bad Bear U.S. Bureau of Land Management 414 West Taylor Hobbs, NM 88240

RE: Wyatt A Federal Battery Request for Closure Lea County, New Mexico Unit E, Sec. 33, T17S, R33E OCD 1RP# 1518

Dear Mr. Johnson and Ms. Bad Bear:

Tetra Tech, Inc. (Tetra Tech) is pleased to submit this request for closure for ConocoPhillips' East Vacuum, Grayburg, San Andres Unit, Wyatt A Federal Battery crude oil release site (Site; Figure 1). This request is in support of ConocoPhillips remediation of a recent 21 barrel crude oil release onto an oil field road and in the battery (C141 attached). The Site is below and located approximately 0.4 miles southwest of Mescalero Ridge (32.79480N, 103.37433W). It is approximately 5.9 miles southeast of ConocoPhillips' Maljamar office. Mr. John Norris owns the surface while the U.S. Bureau of Land Management (BLM) administers the minerals.

Wyatt A is located in the Querecho Plains of eastern New Mexico. This area generally consists of a thin cover of Quaternary sand dunes overlying the undivided Triassic Upper Chinle Group.<sup>1</sup> The Pyote and Dune Series soil at the Site consists of very deep well-drained sand and sandy loam. Typically, the surface layer is yellowish red to dark reddish-brown fine sand. It is underlain by yellowish red sandy clay. Below this is light yellowish brown gravelly fine sandy loam.<sup>2</sup>

# Exposure Pathway Analysis

Depth to water in the vicinity of the Site is estimated to be approximately 90 feet below ground surface (fbgs). This interpretation is based on potentiometric surface contours described by Nicholson and Clebsch<sup>1</sup> for groundwater conditions in Southern Lea County. The New Mexico Office of State Engineer's database<sup>3</sup> did not yield any depth

<sup>&</sup>lt;sup>1</sup> Nicholson Jr., A. and A. Clebsch, 1961. Geology and Ground-Water Conditions in Southern Lea County, New Mexico. USGS, GW Rpt 6, Socorro, NM. pp. 123.

<sup>&</sup>lt;sup>2</sup> U.S. Department of Agriculture, Natural Resources Conservation Services. Web Soil Survey Database.

<sup>&</sup>lt;sup>3</sup> New Mexico Office of State Engineer. W.A.T.E.R.S. Database.



to groundwater information in this area. The United States Geological Survey's database<sup>4</sup> only described groundwater conditions above Mescalero Ridge. Nicholson and Clebsch did indicate a well approximately 2.1 miles to the northwest that registered groundwater at 70 fbgs.

A water well (depth to water unknown) supplying fresh water to a stock pond is located approximately 0.8 miles northwest of the Site. There are dry playas in the area that briefly hold water following a rainfall event. The nearest playa is approximately 330 feet northwest of the Site.

Following the ranking criteria presented in "*Guidelines for Remediation of Leaks, Spills, and Releases*" promulgated on August 13, 1993 by the New Mexico Oil Conservation Division (NMOCD), this Site has the following score:

<u>Criteria</u>		Ranking <u>Score</u>
Depth to groundwater	<100 feet	10
Distance from water source	>1000 feet	0
Distance from domestic water source	>200 feet	0
Distance from surface water body	<1,000 feet	<u>10</u>
Total Ranking Score		20

The remediation action level for a ranking score of >19 is 10 parts per million (ppm) for benzene, 50 ppm for total benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 100 ppm for total petroleum hydrocarbons (TPH).

# Actions

Tetra Tech performed the following activities at Wyatt A Federal Battery:

- Beginning at sampling cell C-3 and east toward and including the battery, soil was excavated to a depth of approximately 3 to 4 feet or until the BTEX concentrations were below NMOCD action level of 10 ppm on a PID. Companion composite battery samples (sample cells C1-3) were submitted to a laboratory where they were analyzed for chloride (Method 300.0A), diesel and gasoline range hydrocarbons (TPH<sub>DRO</sub> and TPH<sub>GRO</sub>, Method 8015) and BTEX (Method 8260). The excavated material was hauled to a State approved disposal location.
- The road excavation sidewalls and floor (5 to 10 feet depth) were randomly screened every 50 feet using a PID, PetroFlag-TPH, and chloride field screening to determine that remediation levels have been achieved (PID reading < 10 ppm, chloride titration < 500 ppm).</li>

<sup>&</sup>lt;sup>4</sup> United States Geological Survey. Groundwater Levels for the Nation Database.



Wyatt A Federal Battery Request for Closure 09/05/2008

- Random north and south sidewalls and floor road excavation samples (sample cells C 4-19) were submitted to a laboratory for analytical laboratory where they were analyzed for chloride (Method 300.0A), TPH<sub>DRO-GRO</sub> (Method 8015) and BTEX (Method 8260) to confirm that these constituents have been removed to concentrations below remediation guidelines.
- Affected soil in the historic road bed was excavated and hauled to a State approved disposal location.
- In the battery area (C1-3), the remaining soil in the excavation was slightly domed (1 foot higher than the sides). The slight doming of the soil beneath a "liner" material will promote lateral drainage off of the geo-membrane after placement. The dome was hand groomed by removing any large sticks and smoothing the surface. A one foot deep anchor trench was constructed around the inside perimeter of the excavation and a 40-mil medium density polyethylene geo-membrane was installed over the domed area. The membrane was cut to fit into the perimeter trench and native soil was backfilled around the perimeter to hold the geo-membrane in-place. Native soil with no rocks or debris was backfilled over the membrane to meet surrounding surface grades. Four carsonite markers were set at the corners of the remediation area notifying interested parties that a subsurface structure was in-place. The inscription on each marker reads "CAUTION, SUBSURFACE STRUCTURE, Call Before Digging, MCA Unit 575-393-0130."

# Findings

Excavations at the Site encountered sand and sandy loam. Typically, the surface layer is yellowish red to dark reddish-brown fine sand. It is underlain by yellowish red sandy clay. Below this was sandy clay interbedded with cliché.

Confirmation sample laboratory analyses of soils remaining below the buried water deflection structure (C 1-3) are below NMOCD recommended remediation limits for TPH and benzene (Table 1). Advancement of the east wall excavation was halted owing to road safety concerns. The PID reading of composite east wall soils was 8.6 ppm. Field chloride titration of soil from the east wall indicated a composite chloride concentration was 218 ppm.

Confirmation sample laboratory analyses indicate the soils remaining in the historic oil field road excavation are below NMOCD remediation standards (Table 1).

### Conclusions

According to laboratory analysis of soils collected during an earlier investigation, TPH, BTEX, and chloride were detected in road and the battery. Exposure pathway analysis indicated a ranking score of "20." Therefore, the site-specific remediation levels are 100 ppm for TPH, 50 ppm for BTEX and 10 ppm for benzene. Based on laboratory analyses of soils remaining after excavation (Table 1), the impacts to soil around the battery and



Wyatt A Federal Battery Request for Closure 09/05/2008

within historic road area are below the NMOCD action levels for TPH and benzene. Chloride concentrations remaining in the battery area and historic oil field road are below pit rule requirements (19.15.17 NMAC, 500 mg/Kg).

# Recommendations

The affected soil below the liner will be left in place until the battery is permanently closed in accordance with NMOCD and BLM rules for site abandonment. Tetra Tech recommends no further action be taken at the Wyatt A Site, and requests closure of 1RP-1518

If you concur with this recommendation or if you have any questions or require additional information, please contact me (432-686-8081) or Mr. Jesse Sosa (ConocoPhillips, 505-391-3126).

Sincerely,

Tetra Tech, Inc.

Charles Durrett Project Manager

Attachments: Table Figures C141 Photo Log Appendix

Cc: Mr. Jesse Sosa, ConocoPhillips Company

# Table 1ConocoPhillips CompanyWyatt A Federal BatterySoil Laboratory Analysis4/30/2008

	Sample		Total Pet	roleum Hyd	rocarbons		Ethyl-		Xylenes	Total
Location	Location	Chloride	GRO	DRO	Total	Benzene	benzene	Toluene	Total	BTEX
		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
C1-3	N	ND	ND	ND	ND	ND	ND	ND	ND	ND
	N	92.6	ND	ND	ND	ND	ND	ND	ND	ND
	N	145	ND	ND	ND	ND	ND	ND	ND	ND
	S	223	ND	ND	ND	ND	ND	ND	ND	ND
	В	445	ND	ND	ND	ND	ND	ND	ND	ND
C4	N	159	ND	15	15	ND	ND	ND	ND	ND
	S	29.7	ND	ND	ND	ND	ND	ND	ND	ND
	B-14'	82	ND	ND	ND	ND	ND	ND	ND	ND
C5	N	11.4	ND	ND	ND	ND	ND	ND	ND	ND
	S	199	ND	ND	ND	ND	ND	ND	ND	ND
	B-14'	121	ND	5.9	5.9	ND	ND	ND	ND	ND
C6	N	186	ND	6.5	6.5	ND	ND	ND	ND	ND
	S	229	ND	ND	ND	ND	ND	ND	ND	ND
	B-12'	80.8	ND	ND	ND	ND	ND	ND	ND	ND
C7	N	187	ND	ND	ND	ND	ND	ND	ND	ND
	S	236	ND	ND	ND	ND	ND	ND	ND	ND
	B-10'	133	ND	5.5	5.5	ND	ND	0.005	0.035	0.040
C8	N	155	ND	ND	ND	ND	ND	ND	ND	ND
	S	35.5	ND	ND	ND	ND	ND	ND	ND	ND
	B-9'	89.6	ND	ND	ND	ND	ND	ND	ND	ND
C9	N	128	ND	ND	ND	ND	ND	ND	ND	ND
	S	150	ND	ND	ND	ND	ND	ND	ND	ND
	B-8'	198	ND	ND	ND	ND	ND	ND	ND	ND
C10	N	16	ND	ND	ND	ND	ND	ND	ND	ND
	S	171	ND	ND	ND	ND	ND	ND	ND	ND
	B-8'	198	ND	ND	ND	ND	ND	ND	ND	ND
C11	N	144	ND	ND	ND	ND	ND	ND	ND	ND
	S	163	ND	ND	ND	ND	ND	ND	ND	ND
	B-9'	242	ND	ND	ND	ND	ND	ND	ND	ND
C12	N	125	ND	ND	ND	ND	ND	ND	ND	ND
	S	205	ND	ND	ND	ND	ND	ND	ND	ND
-	B-9'	128	ND	16	16	ND	ND	ND	ND	ND
C13	N	72.5	ND	ND	ND	ND	ND	ND	ND	ND
	S	115	ND	9.2	9.2	ND	ND	ND	ND	ND
_	B-12'	49.3	ND	ND	ND	ND	ND	ND	ND	ND
C14	N	76.2	ND	ND	ND	ND	ND	ND	ND	ND
	S	ND	ND	ND	ND	ND	ND	ND	ND	ND
	B-8'	46.2	ND	ND	ND	ND	ND	ND	ND	ND
C15	N	255	ND	ND	ND	ND	ND	ND	ND	ND
	S	ND	ND	ND	ND	ND	ND	ND	ND	ND
-	B-8'	27.2	ND	ND	ND	ND	ND	ND	ND	ND
C16	N	5.31	ND	ND	ND	ND	ND	ND	ND	ND
	S	27.3	ND	ND	ND	ND	ND	ND	ND	ND
	B-8'	94.3	ND	ND	ND	ND	ND	ND	ND	ND

.

# Table 1 Continued

	Sample		Total Pet	troleum Hyd	rocarbons		Ethyl-		Xylenes	Total
Location	Location	Chloride	GRO	DRO	Total	Benzene	benzene	Toluene	Total	BTEX
		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
C17	N	32.9	ND	ND	ND	ND	ND	ND	ND	ND
	S	5.27	ND	ND	ND	ND	ND	ND	ND	ND
	B-6'	149	ND	ND	ND	ND	ND	ND	ND	ND
C18	N	27.3	ND	ND	ND	ND	ND	ND	ND	ND
	S	46.4	ND	ND	ND	ND	ND	ND	ND	ND
	B-6'	ND	ND	ND	ND	ND	ND	ND	ND	ND
C19	N	31	ND	ND	ND	ND	ND	ND	ND	ND
	S	36.4	ND	ND	ND	ND	ND	ND	ND	ND
	B-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND
	W	14	ND	ND	ND	ND	ND	ND	ND	ND

N = North side of excavation

S = South side of excavation

B = Bottom of excavation

W = West

' = Feet

ND = Not detected at or above laboratory detection level

GRO = Gasoline range petroleum hydrocarbons

DRO = Diesel range petroleum hydrocarbons

mg/Kg = Milligrams per kilogram





Source: NRCS, Web Soil Survey. No scale.



 Figure 2.
 Wyatt A Federal Crude Oil Release Site and Sampling Locations.

East Vacuum,

Grayburg, San

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300 bbl Steel Tank 7-2						7-29-2007 02:00 7-29-2007 07:30					
Was Immediate Notice Given?   If Y     X   Yes   No     X   No   Not     Required   Pa						rES, 10 whom t Richards NN	? 10CD				
By Whom? Mickey Garner Dat						te and Hour 7-	29-2007 17:52				
Was a Watercourse Reached?   If YI     □ Yes ⊠ No   N/A						YES, Volume Impacting the Watercourse.					
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Describe Cau The source	se of Proble of dischar	em and Reme ge was a ho	dial Actio de in the	n Taken.* bottom of a 30	00 bb	l steel tank. A	vacuum truck	was cal	lled out t	o pick up free liquids.	
Describe Are	a Affected a	nd Cleanup A	Action Tal	(en.*							
The area af delineated	fected is a and remed	n 1100' X 1 liated in acc	0' sectio cordance	n of prepared l with NMOCE	locati ) guid	on pad and re elines.	oadway. No vej	getation	was affe	cted. The area will be	
I hereby certi	fy that the i	formation a	ven above	is true and com	lete to	the best of my	knowledge and u	nderstand	that ours	uant to NMOCD rules and	
regulations al	l operators	are required t	o report a	nd/or file certain	elease	notifications a	nd perform correct	tive actio	ons for rele	eases which may endanger	
public health	or the envir	onment. The	acceptance	ce of a C-141 repo	ort by	the NMOCD m	arked as "Final R	eport" do	es not reli	eve the operator of liability	
or the enviror	ment. In a	dition, NMC	CD accer	ptance of a C-141	report	does not reliev	e the operator of	responsib	ility for co	mpliance with any other	
federal, state,	or local lav	vs and/or regu	lations.			1	OIL CON	CEDV/	TION	DIVISION	
	$\leq$						<u>UIL CON</u>	SERVE	ATION	DIVISION	
Signature:	8 7>	$\sim$	$ \rightarrow $		)		ENVIRO	Esc ,	$\sim$		
Printed Name: Mickey Garner						Approved by	District Supervis	or:	-ph	LEO	
Title: HSEF	R Lead					Approval Dat	ne: 18.3.0-		• xpiration I	Date: 10.3.07	
E-mail Addre	ss: Mickey	.D.Garner@	conocoph	illips.com		Conditions of	Approval:	<u></u>		Attached D	
Date: 7-31	-2007		Phone:	505.391.3158		SUBMITT	NL OF FINAL	. C. 14	1		
• Attac	h Addition	al Sheets If	Necessar	y		10/ 200	emand A.			RH RH	] !
							SALION & CL	ZATV (Q.P	Lecien	RP# E	18



# PHOTO LOG







**Photo Log** 







**View** – West, Away From Battery and Down Historic Oil Field Road



**View** – East, Toward Battery and Up the Historic Oil Field Road



View – East, Toward Removed Battery (Excavating Oily Soil)



















View – East Along Restored Historic Oil Field Road (Subsurface Marker)











View – South Toward Restored Battery (Subsurface Marker)



View – Subsurface Marker





# **APPENDIX** Laboratory Analyses

**Released to Imaging: 1/26/2022 11:49:49 AM** 

79701-

ph: (432) 686-8081

fax:



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

# **Conoco Phillips**

Certificate of Analysis Number: <u>08041870</u>									
Tetra Tech Charlie Durrett 1703 W Industrial Avenue	<u>Site:</u> <u>Site Address:</u>	Maljamar, NM							
Midland TX	<u>PO Number:</u> <u>State:</u>	WA5.CNM.0100 New Mexico							

State Cert. No .:

Date Reported:

5/9/2008

# This Report Contains A Total Of 40 Pages

# Excluding This Page, Chain Of Custody

And

Any Attachments

5/9/2008

Date



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

# Case Narrative for: Conoco Phillips

Certificate of Analysis Number:

# <u>08041870</u>

Report To:	Project Name: COP Wyatt Federal A Tank Battery Rem
Tetra Tech Charlie Durrett 1703 W Industrial Avenue	<u>Site:</u> Maljamar, NM <u>Site Address:</u>
Midland TX 79701- ph: (432) 686-8081 fax:	PO Number:WA5.CNM.0100State:New MexicoState Cert. No.:Jate Reported:5/9/2008

Per the Conoco Phillips TSM Revision 0, a copy of the internal chain of custody is to be included in final data package. However, due to LIMS limitations, this cannot be provided at this time.

Results for soils are reported on a dry-weight basis.

The samples submitted for Volatile Organics by SW846 Method 8260B and Gasoline Range Organics by SW846 Method 8015B analyses were received in a vessel that is not stipulated in Method 5035A; the samples were not preserved and/or analyzed within 48 hours of sample collection.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Betho

08041870 Page 1 5/9/2008

Date

Bethany A. Agarwal Senior Project Manager

Test results meet all requirements of NELAC, unless specified in the narrative.

Received by OCD: 2/12/2021 2:59:55 PM



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

# Conoco Phillips Certificate of Analysis Number:

		<u>0804</u>	1870	
<u>Report To:</u>	Tetra Tech Charlie Durrett 1703 W Industrial Aven	ue	<u>Project Name:</u> <u>Site:</u> <u>Site Address:</u>	COP Wyatt Federal A Tank Battery Rem Maljamar, NM
Fax To:	Midland TX 79701- ph: (432) 686-8081	fax: (432) 686-8085	<u>PO Number:</u> <u>State:</u> <u>State Cert. No.:</u> Dete Reported:	WA5.CNM.0100 New Mexico

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
C5-SW-S	08041870-01	Soil	4/24/2008 10:48:00 AM	4/30/2008 10:00:00 AM	278373	
C4-SW-S	08041870-02	Soil	4/28/2008 3:41:00 PM	4/30/2008 10:00:00 AM	278373	
C5-SW-N	08041870-03	Soil	4/28/2008 10:01:00 AM	4/30/2008 10:00:00 AM	278373	
C4-SW-N	08041870-04	Soil	4/28/2008 3:41:00 PM	4/30/2008 10:00:00 AM	278373	
C6-Bot-12'	08041870-05	Soil	4/28/2008 11:05:00 AM	4/30/2008 10:00:00 AM	278373	
C7-Bot-10'	08041870-06	Soil	4/28/2008 1:28:00 PM	4/30/2008 10:00:00 AM	278373	
C8-SW-N	08041870-07	Soil	4/28/2008 3:08:00 PM	4/30/2008 10:00:00 AM	278373	
C6-SW-N	08041870-08	Soil	4/28/2008 10:49:00 AM	4/30/2008 10:00:00 AM	278373	
C6-SW-S	08041870-09	Soil	4/28/2008 10:54:00 AM	4/30/2008 10:00:00 AM	278373	
C8-SW-S	08041870-10	Soil	4/28/2008 3:15:00 PM	4/30/2008 10:00:00 AM	278373	
C8-Bot-9'	08041870-11	Soil	4/28/2008 3:21:00 PM	4/30/2008 10:00:00 AM	278378	
C7-SW-S	08041870-12	Soil	4/28/2008 1:21:00 PM	4/30/2008 10:00:00 AM	278378	
C7-SW-N	08041870-13	Soil	4/28/2008 1:15:00 PM	4/30/2008 10:00:00 AM	278378	
C3-SW-3	08041870-14	Soil	4/24/2008 10:09:00 AM	4/30/2008 10:00:00 AM	278378	
C4-Bot-14'	08041870-15	Soil	4/23/2008 3:02:00 PM	4/30/2008 10:00:00 AM	278378	

-l Bethay Aga

Bethany A. Agarwal Senior Project Manager

Richard R. Reed Laboratory Director

Ted Yen Quality Assurance Officer

> 08041870 Page 2 5/9/2008 7:40:18 PM

> > .

5/9/2008 Date



HOUSTON, TX 77054

(713) 660-0901

Analyses/Method Result QUAL	Site: Ma Rep.Limit	ljamar, NM		
Analyses/Method Result QUAL	Rep.Limit			
		Dil. Facto	or Date Analyzed	Analyst Seq. #
DIESEL RANGE ORGANICS		MCL S	W8015B U	nits: mg/kg-dry
Diesel Range Organics (C10-C28) ND	5.3	1	05/05/08 20:39	NW 4418950
Surr: n-Pentacosane 73.6	% 20-154	1	05/05/08 20:39	NW 4418950
Prep Method Prep Date Prep Initials F	Prep Factor			
SW3550B 05/03/2008 16:04 QMT 1	1.00			
GASOLINE RANGE ORGANICS		MCL S	W8015B U	nits: mg/kg-dry
Gasoline Range Organics ND	0.11	1	05/01/08 14:39	SFE 4411500
Surr: 1,4-Difluorobenzene 100	% 63-142	1	05/01/08 14:39	SFE 4411500
Surr: 4-Bromofluorobenzene 100	% 50-159	1	05/01/08 14:39	SFE 4411500
Prep Method Prep Date Prep Initials F	Prep Factor			
SW5030B 05/01/2008 14:04 SFE 1	1.00			
ION CHROMATOGRAPHY		MCL E30	0.0 MOD U	nits: mg/kg-dry
Chloride 199	21.4	4	05/02/08 22:26	A_E 4413420
PERCENT MOISTURE		MCL	D2216 Ur	nits: wt%
Percent Moisture 6.51	0	1	05/01/08 10:48	ESK 4409272
VOLATILE ORGANICS BY METHOD 8260B		MCL S	W8260B U	nits: ug/kg-dry
Benzene ND	5.4	1	05/03/08 11:58	JC 4414322
Ethylbenzene ND	5.4	1	05/03/08 11:58	JC 4414322
Toluene ND	5.4	1	05/03/08 11:58	JC 4414322
m,p-Xylene ND	5.4	1	05/03/08 11:58	JC 4414322
o-Xylene ND	5.4	1	05/03/08 11:58	JC 4414322
Xylenes,Total ND	5.4	1	05/03/08 11:58	JC 4414322
Surr: 1,2-Dichloroethane-d4 89.8	% 64-130	1	05/03/08 11:58	JC 4414322
Surr: 4-Bromofluorobenzene 95.8	% 62-130	1	05/03/08 11:58	JC 4414322
Surr: Toluene-d8 106	% 70-140	1	05/03/08 11:58	JC 4414322

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:12	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C4-SW-S			Col	lected	: 04/28/20	008 15:41	SPL Sam	ple II	<b>D:</b> 0804	41870-02
			Sit	te: N	laljamar,	NM				
Analyses/Method	Result	QUAL	R	ep.Limi	t	Dil. Facto	r Date Analy	zed	Analyst	Seq. #
DIESEL RANGE ORGANICS					МС	L S	W8015B	Un	its: mg/k	g-dry
Diesel Range Organics (C10-C28)	ND			5.1	1	1	05/05/08 2	1:02	NW	4418951
Surr: n-Pentacosane	71.3		%	20-154	4	1	05/05/08 2	1:02	NW	4418951
Prep Method Prep Date		Prep Initials	Prep	Factor	7					
SW3550B 05/03/2008 16:0	)4	QMT	1.00	)						
GASOLINE RANGE ORGANICS					MC	L S	W8015B	Un	its: mg/k	g-dry
Gasoline Range Organics	ND			0.1	1	1	05/01/08 1	5:07	SFE	4411501
Surr: 1,4-Difluorobenzene	99.3		%	63-142	2	1	05/01/08 1	5:07	SFE	4411501
Surr: 4-Bromofluorobenzene	98.0		%	50-159	9	1	05/01/08 1	5:07	SFE	4411501
Prep Method Prep Date		Prep Initials	Prep	Factor	7					
SW5030B 05/01/2008 14:0	)5	SFE	1.00	)						
ION CHROMATOGRAPHY					МС	L E30	0.0 MOD	Un	its: mg/k	g-dry
Chloride	29.7			5.1	1	1	05/02/08 2	3:15	A_E	4413423
PERCENT MOISTURE					МС	L	D2216	Un	its: wt%	
Percent Moisture	1.94			(	0	1	05/01/08 1	0:48	ESK	4409271
VOLATILE ORGANICS BY METHOD	) 8260E	3			МС	L S	W8260B	Un	its: ug/kg	g-dry
Benzene	ND			5.1	1	1	05/03/08 1	3:20	JC	4414325
Ethylbenzene	ND			5.1	1	1	05/03/08 1	3:20	JC	4414325
Toluene	ND			5.1	1	1	05/03/08 1	3:20	JC	4414325
m,p-Xylene	ND			5.1	1	1	05/03/08 1	3:20	JC	4414325
o-Xylene	ND			5.1	1	1	05/03/08 1	3:20	JC	4414325
Xylenes,Total	ND			5.1	1	1	05/03/08 1	3:20	JC	4414325
Surr: 1,2-Dichloroethane-d4	85.3		%	64-13	C	1	05/03/08 1	3:20	JC	4414325
Surr: 4-Bromofluorobenzene	89.3		%	62-13	)	1	05/03/08 1	3:20	JC	4414325
Surr: Toluene-d8	101		%	70-14	0	1	05/03/08 1	3:20	JC	4414325

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:18	JC	1.01

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C5-SW-N			Col	lecte	<b>d:</b> 0	4/28/2008	10:01	SPL Sar	nple l	<b>D:</b> 08041	870-03
			Sit	e:	Mal	jamar, NM					
Analyses/Method	Result	QUAL	R	ep.Lir	nit	Dil.	Factor	Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS						MCL	SV	V8015B	Ur	nits: mg/kg	
Diesel Range Organics (C10-C28)	ND				5		1	05/05/08	21:24	NW	4418952
Surr: n-Pentacosane	70.1		%	20-1	54		1	05/05/08	21:24	NW	4418952
Prep Method Prep Date		Prep Initials	Prep	Facto	<u>or</u>						
SW3550B 05/03/2008 16:0	)4	QMT	1.00								
GASOLINE RANGE ORGANICS						MCL	SV	V8015B	Ur	nits: mg/kg	
Gasoline Range Organics	ND			(	).1		1	05/01/08	15:36	SFE	4411502
Surr: 1,4-Difluorobenzene	99.1		%	63-1	42		1	05/01/08	15:36	SFE	4411502
Surr: 4-Bromofluorobenzene	97.4		%	50-1	59		1	05/01/08	15:36	SFE	4411502
Prep Method Prep Date		Prep Initials	Prep	Facto	or						
SW5030B 05/01/2008 14:0	)5	SFE	1.00								
ION CHROMATOGRAPHY						MCL	E300	.0 MOD	Ur	nits: mg/kg	
Chloride	11.4				5		1	05/02/08	23:31	A_E	4413424
PERCENT MOISTURE						MCL		D2216	Ur	nits: wt%	
Percent Moisture	ND				0		1	05/01/08	10:48	ESK	4409270
VOLATILE ORGANICS BY METHOD	) 8260E	3				MCL	SV	V8260B	Ur	nits: ug/kg	
Benzene	ND				5		1	05/03/08	13:48	JC	4414326
Ethylbenzene	ND				5		1	05/03/08	13:48	JC	4414326
Toluene	ND				5		1	05/03/08	13:48	JC	4414326
m,p-Xylene	ND				5		1	05/03/08	13:48	JC	4414326
o-Xylene	ND				5		1	05/03/08	13:48	JC	4414326
Xylenes,Total	ND				5		1	05/03/08	13:48	JC	4414326
Surr: 1,2-Dichloroethane-d4	87.6		%	64-1	30		1	05/03/08	13:48	JC	4414326
Surr: 4-Bromofluorobenzene	91.6		%	62-1	30		1	05/03/08	13:48	JC	4414326
Surr: Toluene-d8	102		%	70-1	40		1	05/03/08	13:48	JC	4414326

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:20	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C4-SW-N			Col	llected:	04/28/2008	15:41	SPL Sam	ple II	<b>D:</b> 0804	41870-04
			Si	te: M	aljamar, NN	1				
Analyses/Method	Result	QUAL	R	ep.Limit	Di	I. Factor	Date Analy	zed	Analyst	Seq. #
DIESEL RANGE ORGANICS					MCL	SV	V8015B	Un	its: mg/k	g-dry
Diesel Range Organics (C10-C28)	15			5.3		1	05/05/08 2	1:46	NW	4418953
Surr: n-Pentacosane	70.4		%	20-154		1	05/05/08 2	1:46	NW	4418953
Prep Method Prep Date		Prep Initials	Pre	o Factor	]					
SW3550B 05/03/2008 16:0	04	QMT	1.00	)						
GASOLINE RANGE ORGANICS					MCL	SV	V8015B	Un	its: mg/k	g-dry
Gasoline Range Organics	ND			0.11		1	05/01/08 16	6:05	SFE	4411503
Surr: 1,4-Difluorobenzene	101		%	63-142		1	05/01/08 16	6:05	SFE	4411503
Surr: 4-Bromofluorobenzene	98.2		%	50-159		1	05/01/08 16	6:05	SFE	4411503
Prep Method Prep Date		Prep Initials	Prep	o Factor	]					
SW5030B 05/01/2008 14:0	06	SFE	1.00	)						
ION CHROMATOGRAPHY					MCL	E300	.0 MOD	Un	its: mg/k	g-dry
Chloride	159			10.5		2	05/02/08 23	3:48	A_E	4413425
PERCENT MOISTURE					MCL		D2216	Un	its: wt%	
Percent Moisture	5.1			C		1	05/01/08 10	0:48	ESK	4409269
VOLATILE ORGANICS BY METHOD	D 8260E	3			MCL	SV	V8260B	Un	its: ug/kg	g-dry
Benzene	ND			5.3		1	05/03/08 14	4:16	JC	4414327
Ethylbenzene	ND			5.3		1	05/03/08 14	4:16	JC	4414327
Toluene	ND			5.3		1	05/03/08 14	4:16	JC	4414327
m,p-Xylene	ND			5.3		1	05/03/08 14	4:16	JC	4414327
o-Xylene	ND			5.3		1	05/03/08 14	4:16	JC	4414327
Xylenes,Total	ND			5.3		1	05/03/08 14	4:16	JC	4414327
Surr: 1,2-Dichloroethane-d4	87.3		%	64-130	1	1	05/03/08 14	4:16	JC	4414327
Surr: 4-Bromofluorobenzene	93.2		%	62-130	)	1	05/03/08 14	4:16	JC	4414327
Surr: Toluene-d8	105		%	70-140		1	05/03/08 14	4:16	JC	4414327

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:22	JC	1.01

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C6-Bo	ot-12'			Col	lected:	04/28/2008	11:05	SPL San	nple	I <b>D:</b> 0804	1870-05
				Sit	e: M	aljamar, NM					
Analyses/Method	I	Result	QUAL	R	ep.Limit	Dil	Facto	or Date Anal	yzed	Analyst	Seq. #
DIESEL RANGE ORGA	NICS					MCL	S	SW8015B	Ur	nits: mg/kg	g-dry
Diesel Range Organics (C1	10-C28)	ND			5.3		1	05/05/08	22:08	NW	4418954
Surr: n-Pentacosane		75.5		%	20-154		1	05/05/08	22:08	NW	4418954
Prep Method F	Prep Date		Prep Initials	Prep	Factor	]					
SW3550B 0	05/03/2008 16:04		QMT	1.00							
GASOLINE RANGE OR	GANICS					MCL	S	SW8015B	Ur	nits: mg/kg	g-dry
Gasoline Range Organics		ND			0.11		1	05/01/08	17:33	SFE	4411572
Surr: 1,4-Difluorobenzen	е	99.9		%	63-142		1	05/01/08	17:33	SFE	4411572
Surr: 4-Bromofluorobenz	ene	97.1		%	50-159		1	05/01/08	17:33	SFE	4411572
Prep Method F	Prep Date		Prep Initials	Prep	Factor						
SW5030B 0	05/01/2008 15:19	)	SFE	1.00							
ION CHROMATOGRAP	HY					MCL	E30	0.0 MOD	Ur	nits: mg/kg	g-dry
Chloride		80.8			5.3		1	05/03/08	8 0:04	A_E	4413426
ION CHROMATOGRAP	HY - SPLP					MCL		SW9056	Ur	nits: mg/L	
Chloride		3.23			0.5		1	05/05/08	17:42	A_E	4418340
						Leach Method		Leachate Date	2	l each l	nitials
						SW1312		05/01/2008	2	GF	India
PERCENT MOISTURE						MCL		D2216	Ur	nits: wt%	
Percent Moisture		5.59			0		1	05/01/08	10:48	ESK	4409267
SPLP VOLATILE ORGA	NICS					MCL	S	SW8260B	Ur	nits: ug/L	
Benzene		ND			5		1	05/02/08	20:51	LT	4413373
Ethylbenzene		ND			5		1	05/02/08	20:51	LT	4413373
Toluene		ND			5		1	05/02/08	20:51	LT	4413373
m,p-Xylene		ND			5		1	05/02/08	20:51	LT	4413373
o-Xylene		ND			5		1	05/02/08	20:51	LT	4413373
Xylenes,Total		ND			5		1	05/02/08	20:51	LT	4413373
Surr: 1,2-Dichloroethane	-d4	92.0		%	62-130		1	05/02/08	20:51	LT	4413373
Surr: 4-Bromofluorobenz	ene	90.0		%	70-130		1	05/02/08	20:51	LT	4413373
Surr: Toluene-d8		96.0		%	74-122		1	05/02/08	20:51	LT	4413373
						ſ					

Leach Method	Leachate Date	Leach Initials
SW1312	05/01/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C6-Bot-12			Collected: 04/28/2008 11:05			<b>SPL Sample ID:</b> 08041870-05		
			Site	: Malj	amar, NM			
Analyses/Method	Result	QUAL	Re	p.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY ME	THOD 8260B				MCL S	V8260B U	nits: ug/kg	J-dry
Benzene	ND			5.3	1	05/03/08 14:43	JC	4414328
Ethylbenzene	ND			5.3	1	05/03/08 14:43	JC	4414328
Toluene	ND			5.3	1	05/03/08 14:43	JC	4414328
m,p-Xylene	ND			5.3	1	05/03/08 14:43	JC	4414328
o-Xylene	ND			5.3	1	05/03/08 14:43	JC	4414328
Xylenes,Total	ND			5.3	1	05/03/08 14:43	JC	4414328
Surr: 1,2-Dichloroethane-d4	89.5		%	64-130	1	05/03/08 14:43	JC	4414328
Surr: 4-Bromofluorobenzene	93.4		%	62-130	1	05/03/08 14:43	JC	4414328
Surr: Toluene-d8	103		%	70-140	1	05/03/08 14:43	JC	4414328

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:24	JC	1.01

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C7-Bo	ot-10'			Col	lected:	04/28/2008	13:2	8 SPL San	nple	ID: 0804	1870-06
				Sit	e: M	aljamar, NM	I				
Analyses/Method	Res	ult	QUAL	R	ep.Limit	Dil	. Fac	tor Date Anal	yzed	Analyst	Seq. #
DIESEL RANGE ORGAN	NICS					MCL		SW8015B	U	nits: mg/k	g-dry
Diesel Range Organics (C1	0-C28) 5	5.5			5.2		1	05/05/08	22:30	NW	4418955
Surr: n-Pentacosane	96	6.5		%	20-154		1	05/05/08	22:30	NW	4418955
Prep Method F	Prep Date		Prep Initials	Prep	Factor	]					
SW3550B 0	5/03/2008 16:04		QMT	1.00							
GASOLINE RANGE OR	GANICS					MCL		SW8015B	U	nits: mg/k	g-dry
Gasoline Range Organics	Ν	ID			0.1		1	05/01/08	18:02	SFE	4411573
Surr: 1,4-Difluorobenzen	e 1	01		%	63-142		1	05/01/08	18:02	SFE	4411573
Surr: 4-Bromofluorobenz	ene 98	8.4		%	50-159		1	05/01/08	18:02	SFE	4411573
Prep Method F	Prep Date		Prep Initials	Prep	Factor	]					
SW5030B 0	5/01/2008 15:20		SFE	1.00		j					
ION CHROMATOGRAP	НҮ					MCL	E3	00.0 MOD	U	nits: mg/k	g-dry
Chloride	1:	33			10.4		2	05/03/08	3 0:21	A_E	4413427
ION CHROMATOGRAP	HY - SPLP					MCL		SW9056	U	nits: mg/L	
Chloride	6.	14			0.5		1	05/05/08	18:32	A_E	4418343
						Leach Method		Leachate Date	9	Leach	Initials
						SW1312		05/01/2008		GF	
PERCENT MOISTURE						MCL		D2216	U	nits: wt%	
Percent Moisture	3.	98			C		1	05/01/08	10:48	ESK	4409266
SPLP VOLATILE ORGA	NICS					MCL		SW8260B	U	nits: ug/L	
Benzene	Ν	ID			5		1	05/02/08	20:24	LT	4413372
Ethylbenzene	Ν	ID			5		1	05/02/08	20:24	LT	4413372
Toluene		5			5		1	05/02/08	20:24	LT	4413372
m,p-Xylene		20			5		1	05/02/08	20:24	LT	4413372
o-Xylene		15			5		1	05/02/08	20:24	LT	4413372
Xylenes,Total	:	35			5		1	05/02/08	20:24	LT	4413372
Surr: 1,2-Dichloroethane	-d4 92	2.0		%	62-130	1	1	05/02/08	20:24	LT	4413372
Surr: 4-Bromofluorobenz	ene 94	0.4		%	70-130		1	05/02/08	20:24	LT	4413372
Surr: Toluene-d8	96	6.0		%	74-122		1	05/02/08	20:24	LT	4413372
								I			]

Leach Method	Leachate Date	Leach Initials		
SW1312	05/01/2008	GF		

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C7-Bot-10'			Col	lected: 04	4/28/2008 13:28	<b>SPL Sample ID:</b> 08041870-06			
			Sit	e: Malj	amar, NM				
Analyses/Method	Result	QUAL	R	ep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #	
VOLATILE ORGANICS BY METHOD 8260B					MCL S	V8260B UI	nits: ug/kg	J-dry	
Benzene	ND			5.2	1	05/03/08 15:10	JC	4414329	
Ethylbenzene	ND			5.2	1	05/03/08 15:10	JC	4414329	
Toluene	ND			5.2	1	05/03/08 15:10	JC	4414329	
m,p-Xylene	ND			5.2	1	05/03/08 15:10	JC	4414329	
o-Xylene	ND			5.2	1	05/03/08 15:10	JC	4414329	
Xylenes,Total	ND			5.2	1	05/03/08 15:10	JC	4414329	
Surr: 1,2-Dichloroethane-d4	89.5		%	64-130	1	05/03/08 15:10	JC	4414329	
Surr: 4-Bromofluorobenzene	93.4		%	62-130	1	05/03/08 15:10	JC	4414329	
Surr: Toluene-d8	101		%	70-140	1	05/03/08 15:10	JC	4414329	

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:26	JC	1.01

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$  - Analyte detected in the associated Method Blank

\* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C8-SW-N			Col	lected: 0	4/28/2008	15:08	SPL Sam	ple I	<b>D:</b> 0804	1870-07
			Sit	e: Mal	jamar, NN	I				
Analyses/Method	Result	QUAL	R	ep.Limit	Di	I. Factor	Date Analy	yzed	Analyst	Seq. #
DIESEL RANGE ORGANICS					MCL	SV	W8015B	Ur	its: mg/kg	g-dry
Diesel Range Organics (C10-C28)	ND			5.2		1	05/05/08 2	22:52	NW	4418956
Surr: n-Pentacosane	69.6		%	20-154		1	05/05/08 2	22:52	NW	4418956
Prep Method Prep Date		Prep Initials	Prep	Factor						
SW3550B 05/03/2008 16:	04	QMT	1.00							
GASOLINE RANGE ORGANICS					MCL	SV	V8015B	Ur	its: mg/kg	g-dry
Gasoline Range Organics	ND			0.1		1	05/01/08 2	18:30	SFE	4411574
Surr: 1,4-Difluorobenzene	100		%	63-142		1	05/01/08 2	18:30	SFE	4411574
Surr: 4-Bromofluorobenzene	98.4		%	50-159		1	05/01/08 ′	18:30	SFE	4411574
Prep Method Prep Date		Prep Initials	Prep	Factor						
SW5030B 05/01/2008 15::	20	SFE	1.00							
ION CHROMATOGRAPHY					MCL	E300	.0 MOD	Ur	its: mg/kg	g-dry
Chloride	155			10.4		2	05/03/08	1:10	A_E	4413430
PERCENT MOISTURE					MCL		D2216	Ur	its: wt%	
Percent Moisture	4.29			0		1	05/01/08 2	10:48	ESK	4409265
VOLATILE ORGANICS BY METHOD	D 8260E	3			MCL	SV	V8260B	Ur	its: ug/kg	-dry
Benzene	ND			5.2		1	05/03/08 2	15:38	JC	4414330
Ethylbenzene	ND			5.2		1	05/03/08	15:38	JC	4414330
Toluene	ND			5.2		1	05/03/08 2	15:38	JC	4414330
m,p-Xylene	ND			5.2		1	05/03/08 1	15:38	JC	4414330
o-Xylene	ND			5.2		1	05/03/08	15:38	JC	4414330
Xylenes,Total	ND			5.2		1	05/03/08 2	15:38	JC	4414330
Surr: 1,2-Dichloroethane-d4	88.4		%	64-130		1	05/03/08	15:38	JC	4414330
Surr: 4-Bromofluorobenzene	94.4		%	62-130		1	05/03/08 2	15:38	JC	4414330
Surr: Toluono de										

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:28	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C6-SW-N			Col	lected:	04/28/2008	8 10:49	SPL Sam	ple I	<b>D:</b> 0804	1870-08
			Sit	e: Ma	ljamar, NN	Л				
Analyses/Method	Result	QUAL	Re	ep.Limit	Di	il. Factor	Date Analy	zed	Analyst	Seq. #
DIESEL RANGE ORGANICS					MCL	SV	V8015B	Un	its: mg/kg	g-dry
Diesel Range Organics (C10-C28)	6.5			5.2		1	05/05/08 2	3:15	NW	4418957
Surr: n-Pentacosane	110		%	20-154		1	05/05/08 2	3:15	NW	4418957
Prep Method Prep Date		Prep Initials	Prep	Factor						
SW3550B 05/03/2008 16:0	04	QMT	1.00							
GASOLINE RANGE ORGANICS					MCL	SV	V8015B	Un	its: mg/kg	g-dry
Gasoline Range Organics	ND			0.1		1	05/01/08 1	8:59	SFE	4411575
Surr: 1,4-Difluorobenzene	100		%	63-142		1	05/01/08 1	8:59	SFE	4411575
Surr: 4-Bromofluorobenzene	97.1		%	50-159		1	05/01/08 1	8:59	SFE	4411575
Prep Method Prep Date		Prep Initials	Prep	Factor						
SW5030B 05/01/2008 15:2	21	SFE	1.00							
ION CHROMATOGRAPHY					MCL	E300	.0 MOD	Un	its: mg/kg	g-dry
Chloride	186			10.5		2	05/03/08	1:26	A_E	4413431
PERCENT MOISTURE					MCL		D2216	Un	its: wt%	
Percent Moisture	4.62			0		1	05/01/08 1	0:48	ESK	4409264
VOLATILE ORGANICS BY METHOD	D 8260E	3			MCL	SV	V8260B	Un	its: ug/kg	-dry
Benzene	ND			5.3		1	05/04/08 1	4:10	JC	4416103
Ethylbenzene	ND			5.3		1	05/04/08 1	4:10	JC	4416103
Toluene	ND			5.3		1	05/04/08 1	4:10	JC	4416103
m,p-Xylene	ND			5.3		1	05/04/08 1	4:10	JC	4416103
o-Xylene	ND			5.3		1	05/04/08 1	4:10	JC	4416103
Xylenes,Total	ND			5.3		1	05/04/08 1	4:10	JC	4416103
Surr: 1,2-Dichloroethane-d4	85.7		%	64-130		1	05/04/08 1	4:10	JC	4416103
Surr: 4-Bromofluorobenzene	91.6		%	62-130		1	05/04/08 1	4:10	JC	4416103

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:30	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C6-SW-S			Col	lected	: 04/28/200	08 10:54	SPL Sam	ple l	<b>D:</b> 0804	1870-09
			Sit	e: N	Naljamar, N	м				
Analyses/Method	Result	QUAL	Re	ep.Limi	it	Dil. Factor	Date Anal	yzed	Analyst	Seq. #
DIESEL RANGE ORGANICS					MCL	SI	W8015B	Ur	nits: mg/k	g-dry
Diesel Range Organics (C10-C28)	ND			5.3	3	1	05/05/08	23:37	NW	4418958
Surr: n-Pentacosane	85.2		%	20-154	4	1	05/05/08	23:37	NW	4418958
Prep Method Prep Date		Prep Initials	Prep	Factor						
SW3550B 05/03/2008 16:0	)4	QMT	1.00							
GASOLINE RANGE ORGANICS					MCL	SI	W8015B	Ur	nits: mg/k	g-dry
Gasoline Range Organics	ND			0.1	1	1	05/01/08	19:28	SFE	4411576
Surr: 1,4-Difluorobenzene	100		%	63-142	2	1	05/01/08	19:28	SFE	4411576
Surr: 4-Bromofluorobenzene	98.3		%	50-159	9	1	05/01/08	19:28	SFE	4411576
Prep Method Prep Date		Prep Initials	Prep	Factor						
SW5030B 05/01/2008 15:2	22	SFE	1.00							
ION CHROMATOGRAPHY					MCL	E300	.0 MOD	Ur	nits: mg/k	g-dry
Chloride	229			21.1	1	4	05/03/08	1:43	A_E	4413432
PERCENT MOISTURE					MCL		D2216	Ur	nits: wt%	
Percent Moisture	5.35			(	0	1	05/01/08	10:48	ESK	4409263
VOLATILE ORGANICS BY METHOD	) 8260E	3			MCL	SI	N8260B	Ur	nits: ug/kg	J-dry
Benzene	ND			5.3	3	1	05/04/08	14:37	JC	4416104
Ethylbenzene	ND			5.3	3	1	05/04/08	14:37	JC	4416104
Toluene	ND			5.3	3	1	05/04/08	14:37	JC	4416104
m,p-Xylene	ND			5.3	3	1	05/04/08	14:37	JC	4416104
o-Xylene	ND			5.3	3	1	05/04/08	14:37	JC	4416104
Xylenes,Total	ND			5.3	3	1	05/04/08	14:37	JC	4416104
Surr: 1,2-Dichloroethane-d4	87.5		%	64-13	0	1	05/04/08	14:37	JC	4416104
Surr: 4-Bromofluorobenzene	91.4		%	62-13	0	1	05/04/08	14:37	JC	4416104
Surr: Toluene-d8	103		%	70-14	0	1	05/04/08	14:37	JC	4416104

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:36	JC	1.01

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Site:     Maljamar, N       Analyses/Method     Result     QUAL     Rep.Limit     D	IM Dil. Factor	· Date Analyzed		
Analyses/Method Result QUAL Rep.Limit	Dil. Factor	Date Analyzed		
	CI		a Analyst	Seq. #
DIESEL RANGE ORGANICS MCL	3	W8015B L	Inits: mg/k	g-dry
Diesel Range Organics (C10-C28) ND 5.2	1	05/05/08 23:5	9 NW	4418959
Surr: n-Pentacosane 80.1 % 20-154	1	05/05/08 23:5	9 NW	4418959
Prep Method Prep Date Prep Initials Prep Factor				
SW3550B 05/03/2008 16:04 QMT 1.00				
GASOLINE RANGE ORGANICS MCL	SI	W8015B U	Inits: mg/k	g-dry
Gasoline Range Organics ND 0.1	1	05/01/08 19:5	6 SFE	4411577
Surr: 1,4-Difluorobenzene         99.6         % 63-142	1	05/01/08 19:5	6 SFE	4411577
Surr: 4-Bromofluorobenzene 98.2 % 50-159	1	05/01/08 19:5	6 SFE	4411577
Prep Method Prep Date Prep Initials Prep Factor				
SW5030B 05/01/2008 15:23 SFE 1.00				
ION CHROMATOGRAPHY MCL	E300	0.0 MOD U	Inits: mg/k	g-dry
Chloride 35.5 5.2	1	05/03/08 16:3	4 A_E	4414206
PERCENT MOISTURE MCL		D2216 L	Inits: wt%	
Percent Moisture 3.91 0	1	05/01/08 10:4	B ESK	4409261
VOLATILE ORGANICS BY METHOD 8260B MCL	SI	W8260B L	Inits: ug/kg	g-dry
Benzene ND 5.2	1	05/04/08 15:0	4 JC	4416105
Ethylbenzene ND 5.2	1	05/04/08 15:0	4 JC	4416105
Toluene ND 5.2	1	05/04/08 15:0	4 JC	4416105
m,p-Xylene ND 5.2	1	05/04/08 15:0	4 JC	4416105
o-Xylene ND 5.2	1	05/04/08 15:0	4 JC	4416105
Xylenes,Total ND 5.2	1	05/04/08 15:0	4 JC	4416105
Surr: 1,2-Dichloroethane-d4 89.6 % 64-130	1	05/04/08 15:0	4 JC	4416105
Surr: 4-Bromofluorobenzene 93.6 % 62-130	1	05/04/08 15:0	4 JC	4416105
Surr: Toluene-d8         106         %         70-140	1	05/04/08 15:0	4 JC	4416105

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:38	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C8-Bo	ot-9'			Col	lected:	04/28/2008 1	5:21	SPL Sam	ple	I <b>D:</b> 0804	1870-11
				Sit	e: M	aljamar, NM					
Analyses/Method	R	esult	QUAL	R	ep.Limit	Dil.	Facto	r Date Anal	yzed	Analyst	Seq. #
DIESEL RANGE ORGAI	NICS					MCL	S	W8015B	Ur	nits: mg/kg	g-dry
Diesel Range Organics (C1	10-C28)	ND			5.2		1	05/06/08	1:06	NW	4418961
Surr: n-Pentacosane		88.9		%	20-154		1	05/06/08	1:06	NW	4418961
Prep Method F	Prep Date		Prep Initials	Prep	Factor						
SW3550B 0	05/03/2008 16:04		QMT	1.00							
GASOLINE RANGE OR	GANICS					MCL	S	W8015B	Ur	nits: mg/kg	g-dry
Gasoline Range Organics		ND			0.1		1	05/01/08 2	20:25	SFE	4411578
Surr: 1,4-Difluorobenzen	е	99.2		%	63-142		1	05/01/08 2	20:25	SFE	4411578
Surr: 4-Bromofluorobenz	ene	98.7		%	50-159		1	05/01/08 2	20:25	SFE	4411578
Prep Method F	Prep Date		Prep Initials	Prep	Factor						
SW5030B 0	)5/01/2008 15:23		SFE	1.00							
ION CHROMATOGRAP	HY					MCL	E30	0.0 MOD	Ur	nits: mg/kg	g-dry
Chloride		89.6			5.24		1	05/03/08	16:51	A_E	4414207
ION CHROMATOGRAP	HY - SPLP					MCL		SW9056	Ur	nits: mg/L	
Chloride		3.38			0.5		1	05/05/08	18:48	A_E	4418344
						Leach Method	1	eachate Date		l each l	nitiale
						SW1312		05/01/2008		GF	
PERCENT MOISTURE						MCI	1	D2216	Ur	nits: wt%	
Percent Moisture		4.49			0	MOL	1	05/01/08	10:48	ESK	4409260
SPI P VOI ATII E ORGA	NICS					MCI	S	W8260B	Ur	nits: ua/l	
Benzene		ND			5		1	05/02/08 2	21:18	LT	4413374
Ethylbenzene		ND			5		1	05/02/08 2	21:18	LT	4413374
Toluene		ND			5		1	05/02/08 2	21:18	LT	4413374
m,p-Xylene		ND			5		1	05/02/08 2	21:18	LT	4413374
o-Xylene		ND			5		1	05/02/08 2	21:18	LT	4413374
Xylenes,Total		ND			5		1	05/02/08 2	21:18	LT	4413374
Surr: 1,2-Dichloroethane	-d4	92.0		%	62-130		1	05/02/08 2	21:18	LT	4413374
Surr: 4-Bromofluorobenz	ene	90.0		%	70-130		1	05/02/08 2	21:18	LT	4413374
Surr: Toluene-d8		96.0		%	74-122		1	05/02/08 2	21:18	LT	4413374
								and all Date		1 1 . 1	- 10 - 1 -

Leach Method	Leachate Date	Leach Initials
SW1312	05/01/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C8-Bot-9'			Coll	ected: 04	<b>SPL Sample ID:</b> 08041870-11			
			Site	e: Malj	amar, NM			
Analyses/Method	Result	QUAL	Re	p.Limit	Dil. Facto	r Date Analyz	ed An	alyst Seq. #
VOLATILE ORGANICS BY METHOD 8260B				MCL S	W8260B	Units:	ug/kg-dry	
Benzene	ND			5.2	1	05/03/08 16	:06 JC	4414331
Ethylbenzene	ND			5.2	1	05/03/08 16	:06 JC	4414331
Toluene	ND			5.2	1	05/03/08 16	:06 JC	4414331
m,p-Xylene	ND			5.2	1	05/03/08 16	:06 JC	4414331
o-Xylene	ND			5.2	1	05/03/08 16	:06 JC	4414331
Xylenes,Total	ND			5.2	1	05/03/08 16	:06 JC	4414331
Surr: 1,2-Dichloroethane-d4	87.8		%	64-130	1	05/03/08 16	:06 JC	4414331
Surr: 4-Bromofluorobenzene	93.8		%	62-130	1	05/03/08 16	:06 JC	4414331
Surr: Toluene-d8	104		%	70-140	1	05/03/08 16	:06 JC	4414331

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:40	JC	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/\!V}}\xspace$  - Analyte detected in the associated Method Blank

\* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C7-SW-S			Col	lected:	04/28/2008	3 13:21	SPL Sam	ple ID	: 0804	1870-12
			Sit	te: M	aljamar, N	М				
Analyses/Method	Result	QUAL	R	ep.Limit	: D	il. Factor	Date Analy	zed	Analyst	Seq. #
DIESEL RANGE ORGANICS					MCL	SV	V8015B	Unit	s: mg/kg	g-dry
Diesel Range Organics (C10-C28)	ND			5.3	5	1	05/06/08	1:28 N	1W	4418962
Surr: n-Pentacosane	95.1		%	20-154	ł	1	05/06/08	1:28 N	W	4418962
Prep Method Prep Date		Prep Initials	Prep	Factor	]					
SW3550B 05/03/2008 16:0	)4	QMT	1.00							
GASOLINE RANGE ORGANICS					MCL	SV	V8015B	Unit	s: mg/kg	g-dry
Gasoline Range Organics	ND			0.11		1	05/01/08 20	0:54 S	SFE	4411579
Surr: 1,4-Difluorobenzene	99.4		%	63-142	2	1	05/01/08 20	0:54 S	SFE	4411579
Surr: 4-Bromofluorobenzene	97.7		%	50-159	)	1	05/01/08 20	0:54 S	FE	4411579
Prep Method Prep Date		Prep Initials	Prep	Factor	]					
SW5030B 05/01/2008 15:2	24	SFE	1.00							
ION CHROMATOGRAPHY					MCL	E300	.0 MOD	Unit	s: mg/kg	g-dry
Chloride	236			21.1		4	05/03/08 1	7:40 A	_E	4414210
PERCENT MOISTURE					MCL		D2216	Unit	s: wt%	
Percent Moisture	5.41			C		1	05/01/08 1	0:48 E	SK	4409258
VOLATILE ORGANICS BY METHOD	) 8260E	3			MCL	SV	V8260B	Unit	s: ug/kg	-dry
Benzene	ND			5.3	6	1	05/03/08 1	6:33 、	JC	4414332
Ethylbenzene	ND			5.3	5	1	05/03/08 1	6:33 、	JC	4414332
Toluene	ND			5.3	5	1	05/03/08 1	6:33 、	JC	4414332
m,p-Xylene	ND			5.3	5	1	05/03/08 1	6:33 、	JC	4414332
o-Xylene	ND			5.3	8	1	05/03/08 1	6:33 、	JC	4414332
Xylenes,Total	ND			5.3	8	1	05/03/08 1	6:33 、	JC	4414332
Surr: 1,2-Dichloroethane-d4	89.3		%	64-130	)	1	05/03/08 1	6:33 、	JC	4414332
Surr: 4-Bromofluorobenzene	91.3		%	62-130	)	1	05/03/08 1	6:33 、	JC	4414332
Surr: Toluene-d8	103		%	70-140	)	1	05/03/08 1	6:33 、	JC	4414332

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:42	JC	1.01

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C7-SW-N			Col	lected	: 04/28/20	008 13:15	SPL Sam	ple I	<b>D:</b> 0804	1870-13
			Sit	te: N	laljamar,	NM				
Analyses/Method	Result	QUAL	R	ep.Limi	it	Dil. Facto	r Date Analy	zed	Analyst	Seq. #
DIESEL RANGE ORGANICS					МС	L S	W8015B	Un	its: mg/k	g-dry
Diesel Range Organics (C10-C28)	ND			5.	3	1	05/06/08	1:50	NW	4418963
Surr: n-Pentacosane	94.4		%	20-15	4	1	05/06/08	1:50	NW	4418963
Prep Method Prep Date		Prep Initials	Prep	Factor						
SW3550B 05/03/2008 16:	04	QMT	1.00	)						
GASOLINE RANGE ORGANICS					MC	L S	W8015B	Un	its: mg/k	g-dry
Gasoline Range Organics	ND			0.1	1	1	05/01/08 2	1:23	SFE	4411580
Surr: 1,4-Difluorobenzene	101		%	63-14	2	1	05/01/08 2	1:23	SFE	4411580
Surr: 4-Bromofluorobenzene	97.1		%	50-15	9	1	05/01/08 2	1:23	SFE	4411580
Prep Method Prep Date		Prep Initials	Prep	Factor						
SW5030B 05/01/2008 15:	25	SFE	1.00	)						
ION CHROMATOGRAPHY					MC	L E30	0.0 MOD	Un	its: mg/k	g-dry
Chloride	187			21.	2	4	05/03/08 1	7:56	A_E	4414211
PERCENT MOISTURE					MC	L	D2216	Un	its: wt%	
Percent Moisture	5.62				0	1	05/01/08 1	0:48	ESK	4409257
VOLATILE ORGANICS BY METHOD	) 8260E	3			MC	L S	W8260B	Un	its: ug/kg	j-dry
Benzene	ND			5.	3	1	05/04/08 1	5:31	JC	4416106
Ethylbenzene	ND			5.	3	1	05/04/08 1	5:31	JC	4416106
Toluene	ND			5.	3	1	05/04/08 1	5:31	JC	4416106
m,p-Xylene	ND			5.	3	1	05/04/08 1	5:31	JC	4416106
o-Xylene	ND			5.	3	1	05/04/08 1	5:31	JC	4416106
Xylenes,Total	ND			5.	3	1	05/04/08 1	5:31	JC	4416106
Surr: 1,2-Dichloroethane-d4	88.5		%	64-13	0	1	05/04/08 1	5:31	JC	4416106
Surr: 4-Bromofluorobenzene	92.6		%	62-13	0	1	05/04/08 1	5:31	JC	4416106
Surr: Toluene-d8	105		%	70-14	0	1	05/04/08 1	5:31	JC	4416106

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:44	JC	0.99

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Analyses/Method Result QUAL Result Contract Result Contract Result Resul	te: Maljama ep.Limit	ar, NM		
Analyses/Method Result QUAL Re	ep.Limit	<b>D</b> 11 <b>E</b>		
		Dil. Factor	Date Analyzed	Analyst Seq. #
DIESEL RANGE ORGANICS	Ν	MCL SV	V8015B Ur	nits: mg/kg-dry
Diesel Range Organics (C10-C28) ND	5.3	1	05/06/08 2:12	NW 4418964
Surr: n-Pentacosane 100 %	20-154	1	05/06/08 2:12	NW 4418964
Prep Method Prep Date Prep Initials Prep	o Factor			
SW3550B 05/03/2008 16:04 QMT 1.00	)			
GASOLINE RANGE ORGANICS	N	MCL SV	V8015B Ur	nits: mg/kg-dry
Gasoline Range Organics ND	0.11	1	05/01/08 21:52	SFE 4411581
Surr: 1,4-Difluorobenzene 99.7 %	63-142	1	05/01/08 21:52	SFE 4411581
Surr: 4-Bromofluorobenzene 97.3 %	50-159	1	05/01/08 21:52	SFE 4411581
Prep Method Prep Date Prep Initials Prep	o Factor			
SW5030B 05/01/2008 15:25 SFE 1.00	)			
ION CHROMATOGRAPHY	Ν	MCL E300	.0 MOD Ur	nits: mg/kg-dry
Chloride 223	21.2	4	05/03/08 18:13	A_E 4414212
PERCENT MOISTURE	Ν	MCL	D2216 Ur	nits: wt%
Percent Moisture 5.51	0	1	05/01/08 10:48	ESK 4409256
VOLATILE ORGANICS BY METHOD 8260B	Ν	MCL SV	W8260B Ur	nits: ug/kg-dry
Benzene ND	5.3	1	05/04/08 15:58	JC 4416107
Ethylbenzene ND	5.3	1	05/04/08 15:58	JC 4416107
Toluene ND	5.3	1	05/04/08 15:58	JC 4416107
m,p-Xylene ND	5.3	1	05/04/08 15:58	JC 4416107
o-Xylene ND	5.3	1	05/04/08 15:58	JC 4416107
Xylenes,Total ND	5.3	1	05/04/08 15:58	JC 4416107
Surr: 1,2-Dichloroethane-d4 91.6 %	64-130	1	05/04/08 15:58	JC 4416107
Surr: 4-Bromofluorobenzene 93.6 %	62-130	1	05/04/08 15:58	JC 4416107
Surr: Toluene-d8 102 %	70-140	1	05/04/08 15:58	JC 4416107

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:46	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C4-Bot-14'				Col	lected:	04/23/2008	15:02	SPL Sam	ple l	<b>D:</b> 0804	1870-15
				Sit	e: M	aljamar, NM					
Analyses/Method	F	Result	QUAL	R	ep.Limit	Dil	. Facto	r Date Anal	yzed	Analyst	Seq. #
DIESEL RANGE ORGAN	NICS					MCL	S	W8015B	Ur	nits: mg/kg	g-dry
Diesel Range Organics (C1	0-C28)	ND			5.4		1	05/05/08	18:26	NW	4419041
Surr: n-Pentacosane		78.9		%	20-154		1	05/05/08 ′	18:26	NW	4419041
Prep Method F	Prep Date		Prep Initials	Prep	Factor						
SW3550B 0	5/04/2008 14:27		QMT	1.00							
GASOLINE RANGE OR	GANICS					MCL	S	W8015B	Ur	nits: mg/kg	g-dry
Gasoline Range Organics		ND			0.11		1	05/02/08	0:15	SFE	4411586
Surr: 1,4-Difluorobenzen	e	99.9		%	63-142		1	05/02/08	0:15	SFE	4411586
Surr: 4-Bromofluorobenz	ene	96.9		%	50-159		1	05/02/08	0:15	SFE	4411586
Prep Method F	Prep Date		Prep Initials	Prep	Factor						
SW5030B 0	5/01/2008 14:07		SFE	1.00							
ION CHROMATOGRAP	HY					MCL	E30	0.0 MOD	Ur	nits: mg/kg	g-dry
Chloride		82			5.38		1	05/03/08 -	18:29	A_E	4414213
ION CHROMATOGRAP	HY - SPLP					MCL		SW9056	Ur	nits: mg/L	
Chloride		2.62			0.5		1	05/05/08	19:04	A_E	4418345
						Leach Method	1	eachate Date		Leach	Initials
						SW1312	(	05/01/2008		GF	<u>initiais</u>
PERCENT MOISTURE						MCI		D2216	Ur	nits: wt%	
Percent Moisture		7.03			0	MOL	1	05/01/08	10:48	ESK	4409255
SPI P VOI ATII E ORGA	NICS					MCI	S	W8260B	Ur	nits: ua/l	
Benzene		ND			5		1	05/02/08	19:58	LT	4413371
Ethylbenzene		ND			5		1	05/02/08	19:58	LT	4413371
Toluene		ND			5		1	05/02/08	19:58	LT	4413371
m,p-Xylene		ND			5		1	05/02/08	19:58	LT	4413371
o-Xylene		ND			5		1	05/02/08	19:58	LT	4413371
Xylenes,Total		ND			5		1	05/02/08	19:58	LT	4413371
Surr: 1,2-Dichloroethane	-d4	92.0		%	62-130		1	05/02/08	19:58	LT	4413371
Surr: 4-Bromofluorobenz	ene	88.0		%	70-130		1	05/02/08	19:58	LT	4413371
Surr: Toluene-d8		94.0		%	74-122		1	05/02/08	19:58	LT	4413371
						ſ					

Leach Method	Leachate Date	Leach Initials		
SW1312	05/01/2008	GF		

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:C4-Bot-14'				ected: 04	4/23/2008 15:02	<b>SPL Sample ID:</b> 08041870-15			
			Site	: Malj	amar, NM				
Analyses/Method	Result	QUAL	Rej	p.Limit	Dil. Factor	Date Analyze	d Analyst	Seq. #	
VOLATILE ORGANICS BY ME	VOLATILE ORGANICS BY METHOD 8260B				MCL S	W8260B	Jnits: ug/kg	g-dry	
Benzene	ND			5.4	1	05/04/08 12:4	8 JC	4416100	
Ethylbenzene	ND			5.4	1	05/04/08 12:4	8 JC	4416100	
Toluene	ND			5.4	1	05/04/08 12:4	8 JC	4416100	
m,p-Xylene	ND			5.4	1	05/04/08 12:4	8 JC	4416100	
o-Xylene	ND			5.4	1	05/04/08 12:4	8 JC	4416100	
Xylenes,Total	ND			5.4	1	05/04/08 12:4	8 JC	4416100	
Surr: 1,2-Dichloroethane-d4	88.2		%	64-130	1	05/04/08 12:4	8 JC	4416100	
Surr: 4-Bromofluorobenzene	92.2		%	62-130	1	05/04/08 12:4	8 JC	4416100	
Surr: Toluene-d8	102		%	70-140	1	05/04/08 12:4	8 JC	4416100	

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/01/2008 14:48	JC	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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# **Quality Control Documentation**

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#### **Conoco Phillips**

**COP Wyatt Federal A Tank Battery Remediation** 

Analysis:		Diesel Range Organic	s			WorkOrder:	08041870
Method:		SW8015B				Lab Batch ID:	78466
		Metho	d Blank		Samples in Analyti		
RunID: HF	P_Z_080	0505C-4418865	Units:	mg/kg	Lab Sample ID	Client Sam	nple ID
Analysis Dat	te:	05/05/2008 16:13	Analyst:	NW	08041870-01A	C5-SW-S	-
Preparation I	Date:	05/03/2008 16:04	Prep By:	QMT Method SW3550B	08041870-02A	C4-SW-S	
					08041870-03A	C5-SW-N	
Analysis: Method: RunID: HP_2 Analysis Date: Preparation Dat		Analita		Deput Dep Limit	08041870-04A C4-SW-		
	Disast	Analyte			08041870-05A	C6-Bot-12'	
	Diesei Suri	r: n-Pentacosane	)	93.5 20-154	08041870-06A	C7-Bot-10'	
	ļ				08041870-07A	C8-SW-N	
					08041870-08A	C6-SW-N	
					08041870-09A	C6-SW-S	
					08041870-10A	C8-SW-S	
					08041870-11A	C8-Bot-9'	
					08041870-12A	C7-SW-S	
					08041870-13A	C7-SW-N	
					08041870-14A	C3-SW-3	

#### Laboratory Control Sample (LCS)

RunID:	HP_Z_080505C-4418866	Units:	mg/kg
Analysis Date:	05/05/2008 16:35	Analyst:	NW
Preparation Date:	05/03/2008 16:04	Prep By:	QMT Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit	
Diesel Range Organics (C10-C28)	66.6	66.6	100	57	150	
Surr: n-Pentacosane	1.66	1.65	99.4	20	154	

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08041869-01		
RunID:	HP_Z_080505C-4418943	Units:	mg/kg
Analysis Date:	05/05/2008 17:19	Analyst:	NW
Preparation Date:	05/03/2008 16:04	Prep By:	QMT Method SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics (C10-C28)	ND	66.6	54.9	82.4	66.6	50.5	75.8	8.44	50	21	175

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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#### Conoco Phillips

**Quality Control Report** 

#### **COP Wyatt Federal A Tank Battery Remediation**

Analysis: Method:	Diesel Range Org SW8015B	Isel Range Organics // /////////////////////////////////								8041870 8466		
		Matrix	Spike (I	MS) / Matrix S	Spike Dupli	cate (MS	5D)					
	Sa Ri Ar Pi	ample Spiked: unID: nalysis Date: reparation Date:	08041 HP_Z_ 05/05/ 05/03/	869-01 080505C-4418 2008 17:19 2008 16:04	943 Units: Analy: Prep I	mg, st: NW By: QM	/kg / IT Method S\	W3550B				
	Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Surr: n-Pent	acosane	ND	1.66	1.36	82.1	1.66	1.26	76.2	7.48	30	20	154

**Qualifiers:** 

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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#### Conoco Phillips

#### **COP Wyatt Federal A Tank Battery Remediation**

Analysis:	Diesel Range Organics	5			WorkOrder:	08041870
Method:	SW8015B				Lab Batch ID:	78485
	Metho	d Blank		Samples in Analytical	Batch:	
RunID: HP_Z_08	0505D-4419036	Units:	mg/kg	Lab Sample ID	Client Sam	ple ID
Analysis Date:	05/05/2008 16:13	Analyst:	NW	08041870-15A	C4-Bot-14'	
Preparation Date:	05/04/2008 14:27	Prep By:	QMT Method SW3550B			

Analyte	Result	Rep Limit
Diesel Range Organics (C10-C28)	ND	5.0
Surr: n-Pentacosane	90.1	20-154

**Quality Control Report** 

#### Laboratory Control Sample (LCS)

RunID:	
Analysis Date:	
Preparation Date:	

HP\_Z\_080505D-4419037 05/05/2008 16:35 05/04/2008 14:27

'Units: mg/kg Analyst: NW Prep By: QMT Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics (C10-C28)	66.6	57.2	85.9	57	150
Surr: n-Pentacosane	1.66	1.38	83.3	20	154

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08050091-02		
RunID:	HP_Z_080505D-4419191	Units:	mg/kg
Analysis Date:	05/06/2008 9:56	Analyst:	NW
Preparation Date:	05/04/2008 14:27	Prep By:	QMT Method SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics (C10-C28)	7.10	66.6	53.6	69.8	66.6	60.5	80.1	12.1	50	21	175
Surr: n-Pentacosane	ND	1.66	1.05	63.4	1.66	1.05	63.2	0.247	30	20	154

**Qualifiers:** 

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

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#### **Conoco Phillips**

**COP Wyatt Federal A Tank Battery Remediation** 

Analysis:		Gasoline Range Orga	inics				WorkOrder:	08041870
Method:		SW8015B					Lab Batch ID:	R235948
		Meth	od Blank			Samples in Analytica	al Batch:	
RunID: HF	P_S_08	0501B-4411499	Units:	mg/kg		Lab Sample ID	Client Sam	ple ID
Analysis Dat	te:	05/01/2008 12:14	Analyst:	SFE		08041870-01B	C5-SW-S	
Preparation I	Date:	05/01/2008 12:14	Prep By:	Me	ethod	08041870-02B	C4-SW-S	
						08041870-03B	C5-SW-N	
		Analita		Desult	Don Limit	08041870-04B	C4-SW-N	
	Casal			Result r		08041870-05B	C6-Bot-12'	
	Sur	r: 1.4-Difluorobenzene		99.9	63-142	08041870-06B	C7-Bot-10'	
	Sur	r: 4-Bromofluorobenzene		95.0	50-159	08041870-07B	C8-SW-N	
						08041870-08B	C6-SW-N	
						08041870-09B	C6-SW-S	
						08041870-10B	C8-SW-S	
						08041870-11B	C8-Bot-9'	
						08041870-12B	C7-SW-S	
						08041870-13B	C7-SW-N	
						08041870-14B	C3-SW-3	
						08041870-15B	C4-Bot-14'	

# Laboratory Control Sample (LCS)

RuniD:	HP_S_080501B-4411498	Units:	mg/kg
Analysis Date:	05/01/2008 11:45	Analyst:	SFE
Preparation Date:	05/01/2008 11:45	Prep By:	Method SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1.00	1.05	105	70	130
Surr: 1,4-Difluorobenzene	0.100	0.107	107	63	142
Surr: 4-Bromofluorobenzene	0.100	0.0995	99.5	50	159

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08041870-14		
RunID:	HP_S_080501B-4411584	Units:	mg/kg-dry
Analysis Date:	05/01/2008 23:18	Analyst:	SFE
Preparation Date:	05/01/2008 15:26	Prep By:	SFE Method SW5030B

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank D - Recovery Ur

J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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#### **Conoco Phillips**

#### **COP Wyatt Federal A Tank Battery Remediation**

Analysis: Gasoline Method: SW8015B	Range Organics						WorkOrder	: 080 ID: R23	)41870 35948		
Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	1.06	1.00	94.8	1.06	0.970	91.6	3.38	50	26	147
Surr: 1,4-Difluorobenzene	ND	0.106	0.109	103	0.106	0.110	104	0.771	30	63	142
Surr: 4-Bromofluorobenzene	ND	0.106	0.106	100	0.106	0.105	98.9	1.11	30	50	159

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$  - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

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#### **Conoco Phillips**

**COP Wyatt Federal A Tank Battery Remediation** 

Analysis:	Volatile Organics by	Method 826	60B			WorkOrder:	08041870
Method:	SW8260B					Lab Batch ID:	78480
	Meth	nod Blank			Samples in Analyti	cal Batch:	
RunID: Q_	_080503A-4414321	Units:	ug/kg		Lab Sample ID	Client Sam	ple ID
Analysis Date	e: 05/03/2008 11:30	Analyst:	JC		08041870-01B	C5-SW-S	-
					08041870-02B	C4-SW-S	
					08041870-03B	C5-SW-N	
	Analita		Decult	Dan Limit	08041870-04B	C4-SW-N	
	Analyte		Result		08041870-05B	C6-Bot-12'	
	Benzene			5.0	08041870-06B	C7-Bot-10'	
	Toluene		ND	5.0	08041870-07B	C8-SW-N	
	m,p-Xylene		ND	5.0	08041870-11B	C8-Bot-9'	
	o-Xylene		ND	5.0	00041070-118		
	Xylenes,Total		ND	5.0	08041870-12B	C7-SW-S	
	Surr: 1,2-Dichloroethane-d4		84.0	64-130			
	Surr: 4-Bromofluorobenzene		94.0	62-130			
	Surr: Toluene-d8		102.0	70-140			

#### Laboratory Control Sample (LCS)

RunID:	Q_080503A-4414320	Units:	ug/kg
Analysis Date:	05/03/2008 11:03	Analyst:	JC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	18.0	90.0	66	142
Ethylbenzene	20.0	20.0	100	35	175
Toluene	20.0	19.0	95.0	59	139
m,p-Xylene	40.0	39.0	97.5	35	175
o-Xylene	20.0	20.0	100	35	175
Xylenes,Total	60	59	98	35	175
Surr: 1,2-Dichloroethane-d4	50.0	41	82.0	64	130
Surr: 4-Bromofluorobenzene	50.0	47	94.0	62	130
Surr: Toluene-d8	50.0	53	106	70	140

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08041870-01				
RunID:	Q_080503A-4414323	Units:	ug/kg	-dry	
Analysis Date:	05/03/2008 12:25	Analyst:	JC		
Preparation Date:	05/01/2008 14:14	Prep By:	JC	Method	SW5030B

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

 $\mathsf{B/V}$  - Analyte detected in the associated Method Blank J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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#### **Conoco Phillips**

#### COP Wyatt Federal A Tank Battery Remediation

Analysis: Volatile Organics b	y Method 826	0B	WorkOrder:	080	041870						
Method: SW8260B							Lab Batch ID: 784		180		
Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	21.2	19.3	90.9	21.5	18.2	84.5	5.71	21	66	142
Ethylbenzene	ND	21.2	19.3	90.9	21.5	19.3	89.5	0	30	35	175
Toluene	ND	21.2	19.3	90.9	21.5	19.3	89.5	0	21	59	139
m,p-Xylene	ND	42.4	40.6	96.0	43	39.6	91.9	2.67	30	35	175
o-Xylene	ND	21.2	20.3	96.0	21.5	20.3	94.4	0	30	35	175
Xylenes,Total	ND	63.5	60.9	96.0	64.6	59.9	92.8	1.77	30	35	175
Surr: 1,2-Dichloroethane-d4	ND	53	46	86.9	53.8	47.1	87.5	2.30	30	64	130
Surr: 4-Bromofluorobenzene	ND	53	50.3	94.9	53.8	52.4	97.4	4.17	30	62	130
Surr: Toluene-d8	ND	53	54.6	103	53.8	56.7	105	3.85	30	70	140

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$  - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

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#### **Conoco Phillips**

#### **COP Wyatt Federal A Tank Battery Remediation**

Analysis: Method:	Volatile Organics by SW8260B	Method 826	60B			WorkOrder: Lab Batch ID:	08041870 78520	
	Meth	nod Blank			Samples in Analytic			
RunID: Q_0	80504A-4416099	Units:	ug/kg		Lab Sample ID	Client San	nple ID	
Analysis Date:	05/04/2008 12:20	Analyst:	JC		08041870-08B	C6-SW-N	-	
·					08041870-09B	C6-SW-S		
					08041870-10B	C8-SW-S		
Г			-		08041870-13B	C7-SW-N		
	Analyte		Result F	Rep Limit	08041870-14B	C3-SW-3		
E	Benzene		ND	5.0	00044070450		,	
E	Ethylbenzene		ND	5.0	08041870-15B	C4-B0I-14		
ר	Toluene		ND	5.0				
r	n,p-Xylene		ND	5.0				
c	o-Xylene		ND	5.0				
)	Xylenes,Total		ND	5.0				
	Surr: 1,2-Dichloroethane-d4		86.0	64-130				
	Surr: 4-Bromofluorobenzene		90.0	62-130				
	Surr: Toluene-d8		102.0	70-140				

Laboratory	Control	Sample	(LCS)

RunID:	Q_080504A-4416098	Units:	ug/kg
Analysis Date:	05/04/2008 11:21	Analyst:	JC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	18.0	90.0	66	142
Ethylbenzene	20.0	19.0	95.0	35	175
Toluene	20.0	20.0	100	59	139
m,p-Xylene	40.0	39.0	97.5	35	175
o-Xylene	20.0	20.0	100	35	175
Xylenes,Total	60	59	98	35	175
Surr: 1,2-Dichloroethane-d4	50.0	42	84.0	64	130
Surr: 4-Bromofluorobenzene	50.0	48	96.0	62	130
Surr: Toluene-d8	50.0	53	106	70	140

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08041870-15				
RunID:	Q_080504A-4416101	Units:	ug/kg	-dry	
Analysis Date:	05/04/2008 13:15	Analyst:	JC		
Preparation Date:	05/01/2008 14:50	Prep By:	JC	Method	SW5030B

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

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#### **Conoco Phillips**

#### **COP Wyatt Federal A Tank Battery Remediation**

Analysis: Volatile Organics by Method 8260B								080	08041870		
Method: SW8260B							Lab Batch I	D: 785	520		
Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	21.7	19.4	89.1	21.7	19.4	89.1	0	21	66	142
Ethylbenzene	ND	21.7	20.4	94.1	21.7	20.4	94.1	0	30	35	175
Toluene	ND	21.7	20.4	94.1	21.7	20.4	94.1	0	21	59	139
m,p-Xylene	ND	43.5	40.9	94.1	43.5	41.9	96.5	2.60	30	35	175
o-Xylene	ND	21.7	20.4	94.1	21.7	20.4	94.1	0	30	35	175
Xylenes,Total	ND	65.2	61.3	94.0	65.2	62.3	95.7	1.74	30	35	175
Surr: 1,2-Dichloroethane-d4	ND	54.3	47.3	87.1	54.3	47.3	87.1	0	30	64	130
Surr: 4-Bromofluorobenzene	ND	54.3	53.8	99.0	54.3	53.8	99.0	0	30	62	130
Surr: Toluene-d8	ND	54.3	55.9	103	54.3	55.9	103	0	30	70	140

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$  - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

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#### Conoco Phillips

**Quality Control Report** 

**COP Wyatt Federal A Tank Battery Remediation** 

Analysis: Method:	SPLP Vola SW8260B	tile Organics	·			-		Worl Lab	kOrder: Batch ID:	08041870 R236077
		Method Blank				Samp	oles in Analy	tical Batcl	h:	
RunID: N_	080502D-4413368	Units:	ug/L			Lab S	Sample ID		Client Sar	nple ID
Analysis Date	e: 05/02/2008	3 12:50 Analyst:	LI			08041	1870-05A		C6-Bot-12	
						08041	1870-06A		C7-B0t-10	
						08041	1870-11A		C8-B0t-9	
	A	nalyte	Result	Rep Lim	it	08041	1870-15A		C4-Bot-14	
	Benzene	·	ND	5.	0					
	Ethylbenzene		ND	5.	0					
	Toluene		ND	5.	0					
	m,p-Xylene		ND	5.	0					
	0-Xylene Xylonos Total		ND	5.	0					
	Surr: 1.2-Dichloro	ethane-d4	92.0	62-13	0					
	Surr: 4-Bromofluc	probenzene	90.0	70-13	0					
	Surr: Toluene-d8		96.0	74-12	2					
		Leachate Blank								
RunID:	N_080502D	-4413367 Units:	ua/L							
	-	40-04 Analust	·g/=							
Analysis Date	e: 05/02/2008	Analyst:	LI							
Leach Date:	05/01/2008	3 0:00 Leach E	by:GF N	lethod S	W1312					
	A	nalyte	Result	Rep Lim	it					
	Benzene		ND	5.	0					
	Ethylbenzene		ND	5.	0					
	Toluene		ND	5.	0					
	m,p-Xylene		ND	5.	0					
	Xylenes Total		ND	5.	0					
	Surr: 1,2-Dichloro	ethane-d4	92.0	62-13	0					
	Surr: 4-Bromofluc	probenzene	90.0	70-13	0					
	Surr: Toluene-d8		94.0	74-12	2		00)			
			La	boratory	Control	Sample (L	<u>((S)</u>			
		RunID:	N_080502	2D-441336	6 Ur	nits: u	g/L			
		Analysis Date:	05/02/20	08 10:52	Ar	nalyst: L	Т			
		Analy	/te		Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit	
		Benzene			20.0	19.0	95.0	76	126	
		Ethylbenzene			20.0	16.0	80.0	67	122	
		Toluene			20.0	18.0	90.0	70	131	
		m,p-Xylene			40.0	34.0	85.0	72	150	
		o-Xylene			20.0	18.0	90.0	78	141	

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

 $\mathsf{B/V}$  - Analyte detected in the associated Method Blank J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

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HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

#### Conoco Phillips

#### **COP Wyatt Federal A Tank Battery Remediation**

Analysis: Method:	SPLP Volatile Organics SW8260B			WorkOrder: Lab Batch ID:	08041870 R236077		
	RunID:	N_080502D-4413366	Units:	ug/L			
	Analysis Date:	05/02/2008 10:52	Analyst:	LT			

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Xylenes,Total	60	52	87	72	150
Surr: 1,2-Dichloroethane-d4	50.0	47	94.0	62	130
Surr: 4-Bromofluorobenzene	50.0	51	102	70	130
Surr: Toluene-d8	50.0	48	96.0	74	122

#### Matrix Spike (MS)

Sample Spiked:	08041857-01		
RunID:	N_080502D-4413370	Units:	ug/L
Analysis Date:	05/02/2008 15:57	Analyst:	LT

Analyte	Sample Result	Spike Added	MS Result	MS % Recovery	Low Limit	High Limit
Benzene	ND	20	21.0	105	76	127
Ethylbenzene	ND	20	17.0	85.0	35	175
Toluene	ND	20	19.0	95.0	70	131
m,p-Xylene	ND	40	36.0	90.0	35	175
o-Xylene	ND	20	19.0	95.0	35	175
Xylenes,Total	ND	60	55	92	35	175
Surr: 1,2-Dichloroethane-d4	ND	50	46	92.0	62	130
Surr: 4-Bromofluorobenzene	ND	50	49	98.0	70	130
Surr: Toluene-d8	ND	50	47	94.0	74	122

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank D - Recov

J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

#### **Conoco Phillips**

**COP Wyatt Federal A Tank Battery Remediation** 

Analysis:	PERCENT MOISTURE		WorkOrder:	08041870
Method:	D2216		Lab Batch ID:	R235818A
		Samples in Analytic	al Batch:	
		Lab Sample ID	Client Sar	nple ID
		08041870-06A	C7-Bot-10	
		08041870-07A	C8-SW-N	
		08041870-08A	C6-SW-N	
		08041870-09A	C6-SW-S	
		08041870-10A	C8-SW-S	
		08041870-11A	C8-Bot-9'	
		08041870-12A	C7-SW-S	
		08041870-13A	C7-SW-N	
		08041870-14A	C3-SW-3	
		08041870-15A	C4-Bot-14	

#### Sample Duplicate

Original Sample:	08041870-09		
RunID:	WET_080501A-4409263	Units:	wt%
Analysis Date:	05/01/2008 10:48	Analyst:	ESK

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Percent Moisture	5.35	5.364	0.255	20

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

 $\ensuremath{\mathsf{B/V}}\xspace$  - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

#### **Conoco Phillips**

**COP Wyatt Federal A Tank Battery Remediation** 

Analysis: PERCENT MOISTURE			WorkOrder:	08041870
Method:	D2216		Lab Batch ID:	R235818B
		Samples in Analytica	Il Batch:	
		Lab Sample ID	Client Sar	mple ID
		08041870-01A	C5-SW-S	
		08041870-02A	C4-SW-S	
		08041870-03A	C5-SW-N	
		08041870-04A	C4-SW-N	
		08041870-05A	C6-Bot-12	1

Sample Duplicate				
Original Sample:	08041900-06			
RunID:	WET_080501A-4409276	Units:	wt%	
Analysis Date:	05/01/2008 10:48	Analyst:	ESK	

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Percent Moisture	19.9	20.06	0.996	20

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$  - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference

nk D - Recovery Unreportable due to Dilution \* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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#### **Conoco Phillips**

**COP Wyatt Federal A Tank Battery Remediation** 

Analysis: Method:	Ion Chromatography E300.0 MOD				WorkOrder: Lab Batch ID:	08041870 R236079D
	Metho	od Blank		Samples in Analytic	al Batch:	
RunID: IC1	_080502B-4413418	Units:	mg/kg	Lab Sample ID	Client San	<u>nple ID</u>
Analysis Date:	05/02/2008 21:53	Analyst:	A_E	08041870-01A	C5-SW-S	
				08041870-02A	C4-SW-S	
				08041870-03A	C5-SW-N	
Г	Analita		Desult Des Limit	08041870-04A	C4-SW-N	
-	Chlorido			08041870-05A	C6-Bot-12'	
L	Chionde		ND 5.0	08041870-06A	C7-Bot-10'	
				08041870-07A	C8-SW-N	
				08041870-08A	C6-SW-N	
				08041870-09A	C6-SW-S	

#### Laboratory Control Sample (LCS)

RunID:	IC1_080502B-4413419	Units:	mg/kg
Analysis Date:	05/02/2008 22:09	Analyst:	A_E

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	100.0	92.69	92.69	80	120

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08041870-01		
RunID:	IC1_080502B-4413421	Units:	mg/kg-dry
Analysis Date:	05/02/2008 22:42	Analyst:	A_E

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	199.2	427.9	590.6	91.48	427.9	587.3	90.71	0.5648	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

ceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

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#### Conoco Phillips

#### **COP Wyatt Federal A Tank Battery Remediation**

Analysis: Method:	lon Chromatography E300.0 MOD	,			WorkOrder: Lab Batch ID:	08041870 R236132	
	Meth	od Blank		Samples in Analytic	al Batch:		
RunID: IC1_	080503A-4414202	Units:	mg/kg	Lab Sample ID	Client San	nple ID	
Analysis Date:	05/03/2008 15:28	Analyst:	A_E	08041870-10A	C8-SW-S		
				08041870-11A	C8-Bot-9'		
				08041870-12A	C7-SW-S		
Г	Analyta		Deput Dep Limit	08041870-13A	C7-SW-N		
C	Analyte			08041870-14A	C3-SW-3		
Ľ	monue		5.0	08041870-15A	C4-Bot-14'		

#### Laboratory Control Sample (LCS)

RunID:	IC1_080503A-4414203	Units:	mg/kg
Analysis Date:	05/03/2008 15:45	Analyst:	A_E

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	100.0	91.05	91.05	80	120

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08041870-11		
RunID:	IC1_080503A-4414208	Units:	mg/kg-dry
Analysis Date:	05/03/2008 17:07	Analyst:	ΑE

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	89.63	104.7	185.0	91.11	104.7	185.5	91.55	0.2487	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

 $\ensuremath{\mathsf{B/V}}\xspace$  - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

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# Quality Control Report

#### **Conoco Phillips**

#### **COP Wyatt Federal A Tank Battery Remediation**

Analysis:	Ion Chromatography	- SPLP			WorkOrder:	08041870
Method:	SW9056				Lab Batch ID:	R236361
	Meth	od Blank		Samples in A	Analytical Batch:	
RunID: IC	1_080505A-4418335	Units:	mg/L	Lab Sample	ID Client Sar	nple ID
Analysis Date	e: 05/05/2008 16:20	Analyst:	A_E	08041870-05	A C6-Bot-12	1
				08041870-06	A C7-Bot-10	1
				08041870-11	A C8-Bot-9'	
	Analyta		Pocult Pop Limit	08041870-15	A C4-Bot-14	1
	Chloride					
	Leach	ate Blank				
RunID:	IC1_080505A-4418336	Units:	mg/L			
Analysis Date	e: 05/05/2008 16:36	Analyst:	A_E			
Leach Date:	05/01/2008 0:00	Leach By	/: GF Method SW13	12		
	Analyte		Result Rep Limit			
	Chloride		ND 0.50			
			trol Sample (LCS)			
	RunID:		IC1_080505A-4418337	Units: mg/L		
	Analysis	s Date:	05/05/2008 16:53	Analyst: A_E		

Analyte	Spike	Spike Result		Lower	Upper	
	Added	Added		Limit	Limit	
Chloride	10.00	9.096	90.96	85	115	

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08041870-05		
RunID:	IC1_080505A-4418341	Units:	mg/L
Analysis Date:	05/05/2008 17:59	Analyst:	A_E

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	3.229	10	12.76	95.28	10	12.76	95.36	0.06269	20	80	120

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank D

J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution
 \* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

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# Sample Receipt Checklist And Chain of Custody

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HOUSTON LABORATORY

8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

#### Sample Receipt Checklist

Wo Dat Ten	rkorder: e and Time Received: nperature:	08041870 4/30/2008 10:00:00 AM 4.0°C			Received E Carrier nar Chilled by:	3y: ne:	RE Fedex-Standa Water Ice	rd Overnight
1.	Shipping container/co	oler in good condition?	Yes		No 🗌		Not Present	
2.	Custody seals intact o	on shippping container/cooler?	Yes		No 🗌		Not Present	
3.	Custody seals intact o	on sample bottles?	Yes		No 🗌		Not Present	
4.	Chain of custody pres	ent?	Yes	$\checkmark$	No 🗌			
5.	Chain of custody sign	ed when relinquished and received?	Yes		No 🗌			
6.	Chain of custody agre	es with sample labels?	Yes		No 🗌			
7.	Samples in proper cor	ntainer/bottle?	Yes		No 🗌			
8.	Sample containers inta	act?	Yes		No 🗌			
9.	Sufficient sample volu	me for indicated test?	Yes	$\checkmark$	No 🗌			
10.	All samples received v	within holding time?	Yes		No 🗌			
11.	Container/Temp Blank	temperature in compliance?	Yes		No 🗌			
12.	Water - VOA vials have	e zero headspace?	Yes		No 🗌	VOA Via	als Not Present	
13.	Water - Preservation c	checked upon receipt (except VOA*)?	Yes		No 🗌		Not Applicable	
	*VOA Preservation Ch	ecked After Sample Analysis						
	SPL Representativ Client Name Contacte	ve:	Cont	act Date & T	ime:			
	Non Conformance Issues:							
	Client Instructions:							

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Requested TAT       Special Reporting Requirements       Laboratory remarks:         Requested TAT       Special Reporting Requirements       Results:       Fanari       PDF       Special Detection Limits (s)         Contract       72hr       L       Standard QC       Level 3 QC       Level 4 QC       TA TRRP       LA RECAP         24hr       Standard       L       Relinquished by Sampler:       A       A       A       A         48hr       A       date       time       2. Received	Client/Consultant David Line						
Requested TAT       Special Reporting Requirements       Results:       Fanari       PDF       Special Detection Limits (s)         Contract       72hr       23hr       Standard QC       Level 3 QC       Level 4 QC       TA TRRP       LA RECAP       Special Detection Limits (s)         24hr       Standard       1. Relinquished by Sampler:       A		Lahu '	oratory remarks;				
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Received by	• <b>OCD</b> :	2/12/2021	2:59:55 PM
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278378





#### **Conoco Phillips**

Certificate of A	Analysis Number:	
<u>080</u>	<u>150489</u>	
Report To:	Project Name: COP Wyatt A	
Tetra Tech	<u>Site:</u> Maljamar, NM	
Charlie Durrett	Site Address:	
1703 W Industrial Avenue		
Midland	PO Number: WA5.CNM.0100	
тх	State: New Mexico	
79701-	State Cert. No.:	
ph: (432) 686-8081 fax:	Date Reported: 5/14/08	

# This Report Contains A Total Of 85 Pages

## Excluding This Page, Chain Of Custody

And

Any Attachments

Date



#### **Case Narrative for: Conoco Phillips**

**Certificate of Analysis Number:** 

#### 08050489

Report To:	Project Name: COP Wyatt A
Tetra Tech	Site: Maljamar, NM
Charlie Durrett	Site Address:
1703 W Industrial Avenue	
Midland TX 79701- ph: (432) 686-8081 fax:	PO Number:     WA5.CNM.0100       State:     New Mexico       State Cert. No.:     5/14/08
	Date Reported: 5/14/08

At the time of sample receipt, it was noted that no analyses were selected for chain of custody 278379. Per our conversation on May 13, 2008, SPL revised the chain of custody per your instructions. Also per your instructions, the site location "Maljamar, NM" was used.

Two sets of trip blanks were received with the samples but were not listed on the chain of custody. Per our conversation on May 13, 2008 SPL, Inc. did not analyze the trip blanks.

Per the Conoco Phillips TSM Revision 0, a copy of the internal chain of custody is to be included in final data package. However, due to LIMS limitations, this cannot be provided at this time.

Results for soils are reported on a dry-weight basis.

The samples submitted for Volatilke Organics by SW846 Method 8260B and Gasoline Range Organics by SW846 Method 8015B analyses were received in a vessel that is not stipulated in Method 5035A; the samples were not preserved and/or analyzed within 48 hours of sample collection.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Your sample ID "C17-Bot-6" (SPL ID:08050489-28) was randomly selected for use in SPL's quality control program for the Ion Chromatography SPLP analysis by SW846 Method SW8056. The Matrix Spike Duplicate (MSD) recoveries were outside of the advisable quality control limits for Chloride (Batch ID:R237442) due to matrix interference. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

08050489 Page 1 5/14/08

Bethany A. Agarwal Senior Project Manager

Test results meet all requirements of NELAC, unless specified in the narrative.

Released to Imaging: 1/26/2022 11:49:49 AM

Date

Received by OCD: 2/12/2021 2:59:55 PM





HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

### **Conoco Phillips**

		Certific	cate of Analysis Num	ber:	
			<u>08050489</u>		
Report To:	Tetra Tech			Project Name:	COP Wyatt A
	Charlie Durrett			Site:	Maljamar, NM
	1703 W Industrial Avenue			Site Address:	
	Midland				
	тх			PO Number:	WA5.CNM.0100
	79701-			State:	New Mexico
	ph: (432) 686-8081	fax: (432) 686-8085		State Cert. No .:	
Fax To:				Date Reported:	5/14/08

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
C14-SW-S	08050489-01	Soil	5/1/08 10:43:00 AM	5/7/08 10:00:00 AM	278377	
C2-SW-N	08050489-02	Soil	4/30/08 7:17:00 AM	5/7/08 10:00:00 AM	278377	
C3-SW-N	08050489-03	Soil	4/30/08 7:26:00 AM	5/7/08 10:00:00 AM	278377	
C13-SW-S	08050489-04	Soil	4/30/08 11:00:00 AM	5/7/08 10:00:00 AM	278377	
C5-Bot-14'	08050489-05	Soil	4/30/08 9:12:00 AM	5/7/08 10:00:00 AM	278377	
C11-SW-N	08050489-06	Soil	4/29/08 3:11:00 PM	5/7/08 10:00:00 AM	278377	
C12-SW-N	08050489-07	Soil	4/29/08 3:59:00 PM	5/7/08 10:00:00 AM	278377	
C12-SW-S	08050489-08	Soil	4/29/08 4:04:00 PM	5/7/08 10:00:00 AM	278377	
C12-Bot-9'	08050489-09	Soil	4/29/08 4:13:00 PM	5/7/08 10:00:00 AM	278377	
C10-SW-N	08050489-10	Soil	4/29/08 2:11:00 PM	5/7/08 10:00:00 AM	278377	
C19-SW-N	08050489-11	Soil	5/2/08 1:22:00 PM	5/7/08 10:00:00 AM	278376	
C18-Bot-6'	08050489-12	Soil	5/2/08 12:51:00 PM	5/7/08 10:00:00 AM	278376	
C17-SW-S	08050489-13	Soil	5/2/08 10:37:00 AM	5/7/08 10:00:00 AM	278376	
C14-Bot-8'	08050489-14	Soil	5/1/08 10:43:00 AM	5/7/08 10:00:00 AM	278376	
C15-SW-N	08050489-15	Soil	5/1/08 11:07:00 AM	5/7/08 10:00:00 AM	278376	
C13-SW-N	08050489-16	Soil	4/30/08 11:33:00 AM	5/7/08 10:00:00 AM	278376	
C14-SW-N	08050489-17	Soil	5/1/08 9:50:00 AM	5/7/08 10:00:00 AM	278376	
C15-SW-S	08050489-18	Soil	5/1/08 11:11:00 AM	5/7/08 10:00:00 AM	278376	
C13-Bot-12'	08050489-19	Soil	5/1/08 10:01:00 AM	5/7/08 10:00:00 AM	278376	
C15-Bot-8'	08050489-20	Soil	5/1/08 11:17:00 AM	5/7/08 10:00:00 AM	278376	
C19-SW-W	08050489-21	Soil	5/2/08 1:56:00 PM	5/7/08 10:00:00 AM	278375	
C17-SW-N	08050489-22	Soil	5/2/08 10:31:00 AM	5/7/08 10:00:00 AM	278375	
C16-Bot-8'	08050489-23	Soil	5/2/08 9:51:00 AM	5/7/08 10:00:00 AM	278375	
C16-SW-S	08050489-24	Soil	5/2/08 9:24:00 AM	5/7/08 10:00:00 AM	278375	

-l Bethay Aga

Bethany A. Agarwal Senior Project Manager

5/14/08

Date

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Richard R. Reed Laboratory Director

Ted Yen Quality Assurance Officer Received by OCD: 2/12/2021 2:59:55 PM



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

#### **Conoco Phillips**

		Certifi	cate of Analysis Num	nber:	
			<u>08050489</u>		
Report To:	Tetra Tech			Project Name:	COP Wyatt A
	Charlie Durrett			Site:	Maljamar, NM
	1703 W Industrial Avent	ue		Site Address:	
	Midland				
	тх			PO Number:	WA5.CNM.0100
	79701-			State:	New Mexico
	ph: (432) 686-8081	fax: (432) 686-8085		State Cert. No .:	
Fax To:				Date Reported:	5/14/08

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
C16-SW-N	08050489-25	Soil	5/2/08 9:15:00 AM	5/7/08 10:00:00 AM	278375	
C18-SW-S	08050489-26	Soil	5/2/08 12:42:00 PM	5/7/08 10:00:00 AM	278375	
C18-SW-N	08050489-27	Soil	5/2/08 12:35:00 PM	5/7/08 10:00:00 AM	278375	
C17-Bot-6'	08050489-28	Soil	5/2/08 10:42:00 AM	5/7/08 10:00:00 AM	278375	
C19-Bot-5'	08050489-29	Soil	5/2/08 1:41:00 PM	5/7/08 10:00:00 AM	278375	
C19-SW-5	08050489-30	Soil	5/2/08 1:33:00 PM	5/7/08 10:00:00 AM	278375	
C11-Bot-9'	08050489-31	Soil	4/29/08 3:28:00 PM	5/7/08 10:00:00 AM	278376	
C11-Bot-9'	08050489-31	Soil	4/29/08 3:28:00 PM	5/7/08 10:00:00 AM	278379	
C10-Bot-8'	08050489-32	Soil	4/29/08 2:20:00 PM	5/7/08 10:00:00 AM	278376	
C10-Bot-8'	08050489-32	Soil	4/29/08 2:20:00 PM	5/7/08 10:00:00 AM	278379	
C11-SW-S	08050489-33	Soil	4/29/08 3:23:00 PM	5/7/08 10:00:00 AM	278379	
C9-SW-S	08050489-34	Soil	4/29/08 1:00:00 PM	5/7/08 10:00:00 AM	278379	
C9-SW-N	08050489-35	Soil	4/29/08 1:09:00 PM	5/7/08 10:00:00 AM	278379	
C9-Bot-8'	08050489-36	Soil	4/29/08 1:13:00 PM	5/7/08 10:00:00 AM	278376	
C9-Bot-8'	08050489-36	Soil	4/29/08 1:13:00 PM	5/7/08 10:00:00 AM	278379	
C10-SW-S	08050489-37	Soil	4/29/08 2:01:00 PM	5/7/08 10:00:00 AM	278379	
Trip Blank #1	08050489-38	Water	5/1/08	5/7/08 10:00:00 AM		$\checkmark$
Trip Blank #2	08050489-39	Water	5/1/08	5/7/08 10:00:00 AM		$\checkmark$

-l Bethay Aga

Bethany A. Agarwal Senior Project Manager

Richard R. Reed Laboratory Director

Ted Yen Quality Assurance Officer

.

5/14/08 Date



HOUSTON, TX 77054

(713) 660-0901

Collected: 05/01/2008 10:43 08050489-01 Client Sample ID: C14-SW-S SPL Sample ID: Site: Maljamar, NM Result QUAL Analyses/Method Rep.Limit Dil. Factor Date Analyzed Analyst Seq. # **DIESEL RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND Diesel Range Organics (C10-C28) 1 05/11/08 1:27 NW 4433527 6.2 Surr: n-Pentacosane 112 1 05/11/08 1:27 4433527 % 20-154 NW Prep Method Prep Date Prep Initials Prep Factor 05/09/2008 11:23 QMT SW3550B 1.00 **GASOLINE RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND 05/09/08 6:04 SFE Gasoline Range Organics 0.12 1 4428517 Surr: 1,4-Difluorobenzene 63-142 4428517 97.7 % 1 05/09/08 6:04 SFE 50-159 4428517 Surr: 4-Bromofluorobenzene 103 % 1 05/09/08 6:04 SFE Prep Method Prep Date Prep Initials Prep Factor SW5030B 05/08/2008 12:46 SFE 1.00 ION CHROMATOGRAPHY MCL E300.0 MOD Units: mg/kg-dry Chloride ND 6.22 05/09/08 22:17 A\_E 4428748 1 PERCENT MOISTURE MCL D2216 Units: wt% Percent Moisture 19.6 0 1 05/08/08 13:22 ESK 4424915 **VOLATILE ORGANICS BY METHOD 8260B** MCL SW8260B Units: ug/kg-dry Benzene ND 6.2 1 05/09/08 9:50 JC 4429005 Ethylbenzene ND 6.2 05/09/08 9:50 JC 4429005 1 Toluene 4429005 ND 6.2 1 05/09/08 9:50 JC m,p-Xylene ND 6.2 1 05/09/08 9:50 JC 4429005 o-Xylene ND 6.2 1 05/09/08 9:50 JC 4429005 Xylenes,Total ND 6.2 1 05/09/08 9:50 JC 4429005 Surr: 1,2-Dichloroethane-d4 % 64-130 1 JC 4429005 86.3 05/09/08 9:50 Surr: 4-Bromofluorobenzene 94.4 % 62-130 1 05/09/08 9:50 JC 4429005 Surr: Toluene-d8 70-140 05/09/08 9:50 4429005 102 % 1 JC

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:10	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

08050489 Page 4 5/14/08 4:51:58 PM



HOUSTON, TX 77054

(713) 660-0901

					• • • • • •			<b>D</b> . 0000	0100 02
		Site	e: Ma	aljamar, N	М				
Result	QUAL	Re	ep.Limit		Dil. Factor	Date Anal	yzed	Analyst	Seq. #
				MCL	SI	N8015B	U	nits: mg/k	g-dry
ND			5.6		1	05/11/08	1:49	NW	4433528
72.7		%	20-154		1	05/11/08	1:49	NW	4433528
	Prep Initials	Prep	Factor						
23	QMT	1.00							
				MCL	SI	N8015B	U	nits: mg/k	g-dry
ND			0.11		1	05/09/08	7:29	SFE	4428520
97.1		%	63-142		1	05/09/08	7:29	SFE	4428520
102		%	50-159		1	05/09/08	7:29	SFE	4428520
	Prep Initials	Prep	Factor						
50	SFE	1.00							
				MCL	E300	.0 MOD	U	nits: mg/k	g-dry
92.6			11.2		2	05/09/08 2	22:33	A_E	4428749
				MCL		D2216	U	nits: wt%	
10.4			0		1	05/08/08	13:22	ESK	4424914
8260B				MCL	SI	N8260B	U	nits: ug/kg	j-dry
ND			5.6		1	05/09/08	13:57	JC	4429008
ND			5.6		1	05/09/08	13:57	JC	4429008
ND			5.6		1	05/09/08	13:57	JC	4429008
ND			5.6		1	05/09/08	13:57	JC	4429008
ND			5.6		1	05/09/08	13:57	JC	4429008
ND			5.6		1	05/09/08	13:57	JC	4429008
89.1		%	64-130		1	05/09/08	13:57	JC	4429008
91.1		%	62-130		1	05/09/08	13:57	JC	4429008
105		%	70-140		1	05/09/08 -	13:57	JC	4429008
	Result ND 72.7 23 ND 97.1 102 50 92.6 92.6 8260B ND ND ND ND ND ND ND N	Result         QUAL           ND         72.7           72.7         Prep Initials           23         QMT           23         QMT           97.1         QMT           97.1         102           97.1         SFE           92.6         SFE           92.6         ND           ND         QMT	Result         QUAL         Result           ND         72.7         %           72.7         %         100           72.7         %         100           72.7         %         100           97.1         ?         %           102         %         100           97.1         %         100           97.1         %         100           97.1         %         100           97.1         %         100           92.6         1.00         100           92.6         1.00         100           92.6         1.00         100           ND         ND         100           ND         10.4         100           ND         10.4         100           ND         100         100	Result         QUAL         Rep.Limit           ND         5.6           72.7         %         20-154           Prep Initials         Prep.Factor           23         QMT         1.00           23         QMT         0.11           97.1         %         63-142           102         %         50-159           Prep Initials         Prep.Factor           50         SFE         1.00           92.6         11.2           92.6         11.2           92.6         11.2           92.6         5.6           ND         5.6           ND <td>Site:         Maljamar, N           Result         QUAL         Rep.Limit         MCL           ND         5.6         MAL         MAL</td> <td>Site:         Maljamar, NM           Result         QUAL         Rep.Limit         Dil. Factor           ND         5.6         1           72.7         % 20-154         1           Prep Initials         Prep Factor         3           QMT         1.00         MCL         SV           ND         0.11         1           Prep Initials         Prep Factor         3           ND         0.111         1           97.1         % 63-142         1           ND         0.11         1           97.1         % 63-142         1           ND         0.11         1           97.1         % 63-142         1           97.1         % 63-142         1           97.1         % 63-142         1           97.1         % 63-142         1           97.2         MCL         E300           92.6         11.0         1           92.6         11.2         2           ND         5.6         1           ND         5.6         1           ND         5.6         1           ND         5.6         1<!--</td--><td>Site:         Maljamar, NM           Result         QUAL         Rep.Limit         Dil. Factor         Date Analy           MCL         SW8015B         MCL         SW8015B           ND         5.6         1         05/11/08           72.7         % 20-154         1         05/11/08           Prep Initials         Prep Factor         MCL         SW8015B           ND         0.11         1         05/09/08           97.1         % 63-142         1         05/09/08           97.1         % 63-142         1         05/09/08           102         % 50-159         1         05/09/08           102         % 50-159         1         05/09/08           102         % 50-159         1         05/09/08           102         % 50-159         1         05/09/08           MCL         E300.0         MOD           92.6         11.2         2         05/09/08           ND         5.6         1         05/09/08           ND         5.6         1         05/09/08           ND         5.6         1         05/09/08           ND         5.6         1         05/09/0</td><td>NIC         SW8015B         UI           Result         QUAL         Rep.Limit         Dil. Factor         Date Analyzed           MCL         SW8015B         UI           ND         5.6         1         05/11/08 1:49           72.7         % 20-154         1         05/11/08 1:49           Prep Initials         Prep Factor         SW8015B         UI           ND         0.11         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         MCL         E300         MOD         UI           97.29         Int.2         2</td><td>NI         Dil. Factor         Date Analyzed         Analyst           Result         QUAL         Rep.Limit         Dil. Factor         Date Analyzed         Analyst           MCL         SW8015B         Units: mg/kg           ND         5.6         1         05/11/08 1:49         NW           72.7         % 20-154         1         05/11/08 1:49         NW           23         QMT         1.00         05/11/08 1:49         NW           Prep Initials         Prep Factor         NCL         SW8015B         Units: mg/kg           23         QMT         1.00         0.11         1         05/09/08 7:29         SFE           97.1         % 63-142         1         05/09/08 7:29         SFE         10           102         % 50-159         1         05/09/08 7:29         SFE           102         % 50-159         1         05/09/08 7:29         SFE           102         % 50-159         1         05/09/08 7:29         SFE           102         % 50-159         1         05/09/08 13:29         SFE           103         Prep Initials         Prep Factor         50         SFE         10.5           104         0</td></td>	Site:         Maljamar, N           Result         QUAL         Rep.Limit         MCL           ND         5.6         MAL         MAL	Site:         Maljamar, NM           Result         QUAL         Rep.Limit         Dil. Factor           ND         5.6         1           72.7         % 20-154         1           Prep Initials         Prep Factor         3           QMT         1.00         MCL         SV           ND         0.11         1           Prep Initials         Prep Factor         3           ND         0.111         1           97.1         % 63-142         1           ND         0.11         1           97.1         % 63-142         1           ND         0.11         1           97.1         % 63-142         1           97.1         % 63-142         1           97.1         % 63-142         1           97.1         % 63-142         1           97.2         MCL         E300           92.6         11.0         1           92.6         11.2         2           ND         5.6         1           ND         5.6         1           ND         5.6         1           ND         5.6         1 </td <td>Site:         Maljamar, NM           Result         QUAL         Rep.Limit         Dil. Factor         Date Analy           MCL         SW8015B         MCL         SW8015B           ND         5.6         1         05/11/08           72.7         % 20-154         1         05/11/08           Prep Initials         Prep Factor         MCL         SW8015B           ND         0.11         1         05/09/08           97.1         % 63-142         1         05/09/08           97.1         % 63-142         1         05/09/08           102         % 50-159         1         05/09/08           102         % 50-159         1         05/09/08           102         % 50-159         1         05/09/08           102         % 50-159         1         05/09/08           MCL         E300.0         MOD           92.6         11.2         2         05/09/08           ND         5.6         1         05/09/08           ND         5.6         1         05/09/08           ND         5.6         1         05/09/08           ND         5.6         1         05/09/0</td> <td>NIC         SW8015B         UI           Result         QUAL         Rep.Limit         Dil. Factor         Date Analyzed           MCL         SW8015B         UI           ND         5.6         1         05/11/08 1:49           72.7         % 20-154         1         05/11/08 1:49           Prep Initials         Prep Factor         SW8015B         UI           ND         0.11         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         MCL         E300         MOD         UI           97.29         Int.2         2</td> <td>NI         Dil. Factor         Date Analyzed         Analyst           Result         QUAL         Rep.Limit         Dil. Factor         Date Analyzed         Analyst           MCL         SW8015B         Units: mg/kg           ND         5.6         1         05/11/08 1:49         NW           72.7         % 20-154         1         05/11/08 1:49         NW           23         QMT         1.00         05/11/08 1:49         NW           Prep Initials         Prep Factor         NCL         SW8015B         Units: mg/kg           23         QMT         1.00         0.11         1         05/09/08 7:29         SFE           97.1         % 63-142         1         05/09/08 7:29         SFE         10           102         % 50-159         1         05/09/08 7:29         SFE           102         % 50-159         1         05/09/08 7:29         SFE           102         % 50-159         1         05/09/08 7:29         SFE           102         % 50-159         1         05/09/08 13:29         SFE           103         Prep Initials         Prep Factor         50         SFE         10.5           104         0</td>	Site:         Maljamar, NM           Result         QUAL         Rep.Limit         Dil. Factor         Date Analy           MCL         SW8015B         MCL         SW8015B           ND         5.6         1         05/11/08           72.7         % 20-154         1         05/11/08           Prep Initials         Prep Factor         MCL         SW8015B           ND         0.11         1         05/09/08           97.1         % 63-142         1         05/09/08           97.1         % 63-142         1         05/09/08           102         % 50-159         1         05/09/08           102         % 50-159         1         05/09/08           102         % 50-159         1         05/09/08           102         % 50-159         1         05/09/08           MCL         E300.0         MOD           92.6         11.2         2         05/09/08           ND         5.6         1         05/09/08           ND         5.6         1         05/09/08           ND         5.6         1         05/09/08           ND         5.6         1         05/09/0	NIC         SW8015B         UI           Result         QUAL         Rep.Limit         Dil. Factor         Date Analyzed           MCL         SW8015B         UI           ND         5.6         1         05/11/08 1:49           72.7         % 20-154         1         05/11/08 1:49           Prep Initials         Prep Factor         SW8015B         UI           ND         0.11         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         % 63-142         1         05/09/08 7:29           97.1         MCL         E300         MOD         UI           97.29         Int.2         2	NI         Dil. Factor         Date Analyzed         Analyst           Result         QUAL         Rep.Limit         Dil. Factor         Date Analyzed         Analyst           MCL         SW8015B         Units: mg/kg           ND         5.6         1         05/11/08 1:49         NW           72.7         % 20-154         1         05/11/08 1:49         NW           23         QMT         1.00         05/11/08 1:49         NW           Prep Initials         Prep Factor         NCL         SW8015B         Units: mg/kg           23         QMT         1.00         0.11         1         05/09/08 7:29         SFE           97.1         % 63-142         1         05/09/08 7:29         SFE         10           102         % 50-159         1         05/09/08 7:29         SFE           102         % 50-159         1         05/09/08 7:29         SFE           102         % 50-159         1         05/09/08 7:29         SFE           102         % 50-159         1         05/09/08 13:29         SFE           103         Prep Initials         Prep Factor         50         SFE         10.5           104         0

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:16	JC	1.01

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON LABORATORY

8880 INTERCHANGE DRIVE

HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C3-S	W-N			Col	lected	: 04/30/2	008 7:2	6	SPL San	nple I	<b>D:</b> 0805	50489-03
				Sit	te: N	/laljamar,	NM					
Analyses/Method	Re	esult	QUAL	R	ep.Lim	it	Dil. Fa	actor	Date Anal	yzed	Analyst	Seq. #
DIESEL RANGE ORGA	NICS					МС	Ľ	SW	/8015B	Ur	nits: mg/k	g-dry
Diesel Range Organics (C	10-C28)	ND			5.	2	1	1	05/11/08	3 2:12	NW	4433529
Surr: n-Pentacosane	Ş	92.4		%	20-15	4	1	1	05/11/08	8 2:12	NW	4433529
Prep Method	Prep Date		Prep Initials	Prep	Factor							
SW3550B	05/09/2008 11:23		QMT	1.00	)							
GASOLINE RANGE OR	GANICS					МС	L	SW	/8015B	Ur	nits: mg/k	g-dry
Gasoline Range Organics		ND			0.	1	1	1	05/09/08	3 7:57	SFE	4428521
Surr: 1,4-Difluorobenzer	ne g	95.7		%	63-14	2	1	1	05/09/08	3 7:57	SFE	4428521
Surr: 4-Bromofluoroben:	zene	102		%	50-15	9	1	1	05/09/08	3 7:57	SFE	4428521
Prep Method	Prep Date		Prep Initials	Prep	Factor							
SW5030B	05/08/2008 12:51		SFE	1.00	)							
ION CHROMATOGRAP	НҮ					МС	;L E	<b>E300</b> .	0 MOD	Ur	nits: mg/k	g-dry
Chloride		145			10.	5	2	2	05/09/08	23:56	A_E	4428754
PERCENT MOISTURE						МС	L		D2216	Ur	nits: wt%	
Percent Moisture	2	4.38				0	1	1	05/08/08	13:22	ESK	4424913
VOLATILE ORGANICS	BY METHOD 820	60B				МС	Ľ	SW	/8260B	Ur	nits: ug/kg	g-dry
Benzene		ND			5.	3	1	1	05/09/08	14:24	JC	4429009
Ethylbenzene		ND			5.	3	1	1	05/09/08	14:24	JC	4429009
Toluene		ND			5.	3	1	1	05/09/08	14:24	JC	4429009
m,p-Xylene		ND			5.	3	1	1	05/09/08	14:24	JC	4429009
o-Xylene		ND			5.	3	1	1	05/09/08	14:24	JC	4429009
Xylenes,Total		ND			5.	3	1	1	05/09/08	14:24	JC	4429009
Surr: 1,2-Dichloroethane	e-d4 8	37.5		%	64-13	0	1	1	05/09/08	14:24	JC	4429009
Surr: 4-Bromofluoroben:	zene 8	39.5		%	62-13	0	1	1	05/09/08	14:24	JC	4429009
Surr: Toluene-d8		101		%	70-14	0	1	1	05/09/08	14:24	JC	4429009
				_								

	Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B 05/08/2008 15:18 JC 1.01	SW5030B	05/08/2008 15:18	JC	1.01

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C13-SW-S Collected: 04/30/2008 11:00 08050489-04 SPL Sample ID: Site: Maljamar, NM Result QUAL Rep.Limit Dil. Factor Analyst Analyses/Method Date Analyzed Seq. # **DIESEL RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry Diesel Range Organics (C10-C28) 9.2 1 05/11/08 2:34 NW 4433530 5.1 Surr: n-Pentacosane 109 20-154 1 05/11/08 2:34 NW 4433530 % Prep Method Prep Date Prep Initials Prep Factor SW3550B 05/09/2008 11:23 QMT 1.00 **GASOLINE RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND 05/09/08 8:25 SFE 4428522 Gasoline Range Organics 0.1 1 4428522 Surr: 1,4-Difluorobenzene 94.4 % 63-142 1 05/09/08 8:25 SFE 50-159 1 05/09/08 8:25 SFE 4428522 Surr: 4-Bromofluorobenzene 103 % Prep Method Prep Date Prep Initials Prep Factor SW5030B 05/08/2008 12:52 SFE 1.00 ION CHROMATOGRAPHY MCL E300.0 MOD Units: mg/kg-dry Chloride 115 10.3 2 05/10/08 0:12 A\_E 4428755 PERCENT MOISTURE MCL D2216 Units: wt% Percent Moisture 2.67 0 1 05/08/08 13:22 ESK 4424912 VOLATILE ORGANICS BY METHOD 8260B MCI SW8260B Units: ua/ka-drv

				••=••=		g,g,
Benzene	ND	5.1	1	05/09/08 14:52	JC	4429010
Ethylbenzene	ND	5.1	1	05/09/08 14:52	JC	4429010
Toluene	ND	5.1	1	05/09/08 14:52	JC	4429010
m,p-Xylene	ND	5.1	1	05/09/08 14:52	JC	4429010
o-Xylene	ND	5.1	1	05/09/08 14:52	JC	4429010
Xylenes,Total	ND	5.1	1	05/09/08 14:52	JC	4429010
Surr: 1,2-Dichloroethane-d4	94.2	% 64-130	1	05/09/08 14:52	JC	4429010
Surr: 4-Bromofluorobenzene	90.2	% 62-130	1	05/09/08 14:52	JC	4429010
Surr: Toluene-d8	102	% 70-140	1	05/09/08 14:52	JC	4429010

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:20	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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8880 INTERCHANGE DRIVE

HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C5-Bot-14'				Collected: 04		04/30/2008 9:12		SPL Sam	SPL Sample ID:		08050489-05	
				Sit	e: M	aljamar, NM						
Analyses/Method	Re	esult	QUAL	Re	p.Limit	Dil.	Facto	or Date Anal	yzed	Analyst	Seq. #	
DIESEL RANGE ORGAN	NICS					MCL	S	SW8015B	Ur	nits: mg/kg	g-dry	
Diesel Range Organics (C	10-C28)	5.9			5.2		1	05/11/08	2:57	NW	4433531	
Surr: n-Pentacosane	-	78.0		%	20-154		1	05/11/08	2:57	NW	4433531	
Prep Method	Prep Date		Prep Initials	Prep	Factor							
SW3550B (	05/09/2008 11:23		QMT	1.00								
GASOLINE RANGE OR	GANICS					MCL	S	SW8015B	Ur	nits: mg/kg	g-dry	
Gasoline Range Organics		ND			0.1		1	05/09/08	8:54	SFE	4428523	
Surr: 1,4-Difluorobenzer	ie s	97.4		%	63-142		1	05/09/08	8:54	SFE	4428523	
Surr: 4-Bromofluorobenz	tene	105		%	50-159		1	05/09/08	8:54	SFE	4428523	
Prep Method	Prep Date		Prep Initials	Prep	Factor							
SW5030B (	05/08/2008 12:52		SFE	1.00								
ION CHROMATOGRAPH	ΗY					MCL	E30	0.0 MOD	Ur	nits: mg/k	g-dry	
Chloride		121			10.3		2	05/10/08	0:28	A_E	4428756	
ION CHROMATOGRAPH	HY - SPLP					MCL		SW9056	Ur	nits: mg/L		
Chloride	-	7.18			0.5		1	05/13/08	1:31	A_E	4433890	
						Leach Method		Leachate Date	)	Leach	Initials	
						SW1312		05/09/2008	-	GF		
PERCENT MOISTURE						MCL		D2216	Ur	nits: wt%		
Percent Moisture		3.17			0		1	05/08/08	13:22	ESK	4424911	
SPLP VOLATILE ORGA	NICS					MCL	ę	SW8260B	Ur	nits: ug/L		
Benzene		ND			5		1	05/10/08	16:29	LT	4429937	
Ethylbenzene		ND			5		1	05/10/08	16:29	LT	4429937	
Toluene		ND			5		1	05/10/08	16:29	LT	4429937	
m,p-Xylene		ND			5		1	05/10/08	16:29	LT	4429937	
o-Xylene		ND			5		1	05/10/08	16:29	LT	4429937	
Xylenes,Total		ND			5		1	05/10/08	16:29	LT	4429937	
Surr: 1,2-Dichloroethane	ed4	102		%	62-130		1	05/10/08	16:29	LT	4429937	
Surr: 4-Bromofluorobenz	zene 9	90.0		%	70-130		1	05/10/08	16:29	LT	4429937	
Surr: Toluene-d8	9	94.0		%	74-122		1	05/10/08	16:29	LT	4429937	
						Leach Method		Leachate Date	)	Leach	Initials	

Leach Method	Leachate Date	Leach Initials
SW1312	05/09/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C5-Bot-14'	Collected: 04/30/2008 9:12			2	SPL Sample ID: 08050489-0			
		Site:	Malj	amar, NM				
Analyses/Method Resul	QUAL	Rep.	Limit	Dil. Fa	ctor	Date Analyze	d Analys	st Seq. #
VOLATILE ORGANICS BY METHOD 8260B				MCL	SW8	3260B	Units: ug/	kg-dry
Benzene ND			5.2	1		05/09/08 15:2	20 JC	4429011
Ethylbenzene ND			5.2	1		05/09/08 15:2	20 JC	4429011
Toluene ND			5.2	1		05/09/08 15:2	20 JC	4429011
m,p-Xylene ND			5.2	1		05/09/08 15:2	20 JC	4429011
o-Xylene ND			5.2	1		05/09/08 15:2	20 JC	4429011
Xylenes,Total ND			5.2	1		05/09/08 15:2	20 JC	4429011
Surr: 1,2-Dichloroethane-d4 94.2		% 64	4-130	1		05/09/08 15:2	20 JC	4429011
Surr: 4-Bromofluorobenzene 94.2		% 62	2-130	1		05/09/08 15:2	20 JC	4429011
Surr: Toluene-d8 106		% 70	)-140	1		05/09/08 15:2	20 JC	4429011

Prep Method	Prep Date	Prep Initials	Prep Factor	
SW5030B	05/08/2008 15:22	JC	1.00	

Qualifiers:

ND/U - Not Detected at the Reporting Limit

- B/V Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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8880 INTERCHANGE DRIVE

HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C11-SW-N				Col	lected:	04/29/2008	3 15:11	SPL San	nple I	<b>D:</b> 0805	0489-06
				Sit	e: Ma	ljamar, NN	Λ				
Analyses/Method	R	esult	QUAL	R	ep.Limit	D	il. Factor	Date Anal	yzed	Analyst	Seq. #
DIESEL RANGE ORGA	NICS					MCL	SV	V8015B	Ur	nits: mg/kg	g-dry
Diesel Range Organics (C	C10-C28)	ND			5.2		1	05/11/08	3 3:19	NW	4433532
Surr: n-Pentacosane		72.9		%	20-154		1	05/11/08	3 3:19	NW	4433532
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW3550B	05/09/2008 11:23		QMT	1.00							
GASOLINE RANGE OR	GANICS					MCL	SV	V8015B	Ur	nits: mg/kg	g-dry
Gasoline Range Organics	6	ND			0.1		1	05/09/08	3 9:22	SFE	4428524
Surr: 1,4-Difluorobenze	ene	97.1		%	63-142		1	05/09/08	3 9:22	SFE	4428524
Surr: 4-Bromofluorober	nzene	104		%	50-159		1	05/09/08	3 9:22	SFE	4428524
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW5030B	05/08/2008 12:53		SFE	1.00							
ION CHROMATOGRAP	РНΥ					MCL	E300	.0 MOD	Ur	nits: mg/kg	g-dry
Chloride		144			10.4		2	05/10/08	3 0:45	A_E	4428757
PERCENT MOISTURE						MCL		D2216	Ur	nits: wt%	
Percent Moisture		3.93			0		1	05/08/08	13:22	ESK	4424910
VOLATILE ORGANICS	BY METHOD 82	260B				MCL	SV	V8260B	Ur	nits: ug/kg	-dry
Benzene		ND			5.2		1	05/09/08	15:48	JC	4429012
Ethylbenzene		ND			5.2		1	05/09/08	15:48	JC	4429012
Toluene		ND			5.2		1	05/09/08	15:48	JC	4429012
m,p-Xylene		ND			5.2		1	05/09/08	15:48	JC	4429012
o-Xylene		ND			5.2		1	05/09/08	15:48	JC	4429012
Xylenes,Total		ND			5.2		1	05/09/08	15:48	JC	4429012
Surr: 1,2-Dichloroethan	ne-d4	84.2		%	64-130		1	05/09/08	15:48	JC	4429012
Surr: 4-Bromofluorober	nzene	94.2		%	62-130		1	05/09/08	15:48	JC	4429012
Surr: Toluene-d8		102		%	70-140		1	05/09/08	15:48	JC	4429012

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:24	JC	1.00

**Qualifiers:** 

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C12-SW-N			Col	lected:	04/29/200	8 15:59	SPL San	nple I	<b>D:</b> 0805	0489-07
			Sit	e: Ma	aljamar, N	М				
Analyses/Method	Result	QUAL	Re	ep.Limit		Dil. Factor	Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS					MCL	SV	V8015B	Ur	nits: mg/kg	g-dry
Diesel Range Organics (C10-C28)	ND			5.2		1	05/11/08	3 3:42	NW	4433533
Surr: n-Pentacosane	45.8		%	20-154		1	05/11/08	3 3:42	NW	4433533
Prep Method Prep Date		Prep Initials	Prep	Factor	]					
SW3550B 05/09/2008 1	1:23	QMT	1.00							
GASOLINE RANGE ORGANICS					MCL	SV	V8015B	Ur	nits: mg/kg	g-dry
Gasoline Range Organics	ND			0.1		1	05/09/08	10:47	SFE	4428527
Surr: 1,4-Difluorobenzene	98.0		%	63-142		1	05/09/08	10:47	SFE	4428527
Surr: 4-Bromofluorobenzene	102		%	50-159		1	05/09/08	10:47	SFE	4428527
Prep Method Prep Date		Prep Initials	Prep	Factor						
SW5030B 05/08/2008 1	2:54	SFE	1.00							
ION CHROMATOGRAPHY					MCL	E300	.0 MOD	Ur	nits: mg/kg	g-dry
Chloride	125			10.4		2	05/10/08	3 1:01	A_E	4428758
PERCENT MOISTURE					MCL		D2216	Ur	nits: wt%	
Percent Moisture	4.08			0		1	05/08/08	13:22	ESK	4424909
VOLATILE ORGANICS BY METHO	DD 8260B				MCL	SV	V8260B	Ur	nits: ug/kg	-dry
Benzene	ND			5.2		1	05/10/08	3 1:12	JC	4429746
Ethylbenzene	ND			5.2		1	05/10/08	3 1:12	JC	4429746
Toluene	ND			5.2		1	05/10/08	3 1:12	JC	4429746
m,p-Xylene	ND			5.2		1	05/10/08	3 1:12	JC	4429746
o-Xylene	ND			5.2		1	05/10/08	3 1:12	JC	4429746
Xylenes,Total	ND			5.2		1	05/10/08	3 1:12	JC	4429746
Surr: 1,2-Dichloroethane-d4	86.0		%	64-130		1	05/10/08	3 1:12	JC	4429746
Surr: 4-Bromofluorobenzene	94.0		%	62-130		1	05/10/08	3 1:12	JC	4429746
Surr: Toluene-d8	100		0/	70 4 40		1	05/10/09	2 1.12		4420746

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:26	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C12-SW-S			Col	lected:	04/29/2008	16:04	SPL Sample	<b>ID:</b> 0805	50489-08
			Sit	e: M	aljamar, NM				
Analyses/Method	Result	QUAL	R	ep.Limit	Dil	. Factor	Date Analyzed	d Analyst	Seq. #
DIESEL RANGE ORGANICS					MCL	SV	W8015B U	Inits: mg/k	g-dry
Diesel Range Organics (C10-C28)	ND			5.2		1	05/12/08 14:5	5 NW	4434362
Surr: n-Pentacosane	94.2		%	20-154		1	05/12/08 14:5	5 NW	4434362
Prep Method Prep Date		Prep Initials	Prep	Factor					
SW3550B 05/10/2008 16:	38	QMT	1.00						
GASOLINE RANGE ORGANICS					MCL	SV	W8015B U	Inits: mg/k	g-dry
Gasoline Range Organics	ND			0.1		1	05/09/08 11:1	5 SFE	4428528
Surr: 1,4-Difluorobenzene	97.1		%	63-142		1	05/09/08 11:1	5 SFE	4428528
Surr: 4-Bromofluorobenzene	103		%	50-159		1	05/09/08 11:1	5 SFE	4428528
Prep Method Prep Date		Prep Initials	Prep	Factor					
SW5030B 05/08/2008 12:	55	SFE	1.00						
ION CHROMATOGRAPHY					MCL	E300	.0 MOD U	Inits: mg/k	g-dry
Chloride	205			20.9		4	05/10/08 1:18	8 A_E	4428759
PERCENT MOISTURE					MCL		D2216 U	Inits: wt%	
Percent Moisture	4.29			0		1	05/08/08 13:22	2 ESK	4424908
VOLATILE ORGANICS BY METHOD	8260B				MCL	SV	W8260B U	Inits: ug/kg	J-dry
Benzene	ND			5.2		1	05/10/08 1:40	D JC	4429747
Ethylbenzene	ND			5.2		1	05/10/08 1:40	D JC	4429747
Toluene	ND			5.2		1	05/10/08 1:40	D JC	4429747
m,p-Xylene	ND			5.2		1	05/10/08 1:40	D JC	4429747
o-Xylene	ND			5.2		1	05/10/08 1:40	D JC	4429747
Xylenes,Total	ND			5.2		1	05/10/08 1:40	D JC	4429747
Surr: 1,2-Dichloroethane-d4	86.2		%	64-130		1	05/10/08 1:40	) JC	4429747
Surr: 4-Bromofluorobenzene	96.2		%	62-130		1	05/10/08 1:40	) JC	4429747
Surr: Toluene-d8	96.2		%	70-140		1	05/10/08 1:40	) JC	4429747

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:28	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

08050489 Page 12 5/14/08 4:52:08 PM



HOUSTON, TX 77054

(713) 660-0901

Site: Maljamar, NM           Analyses/Method         Result         QUAL         Rep.Limit         Dil. Factor         Date Analyzed         Analyst         Seq. #           DIESEL RANGE ORGANICS         MCL         SW8015B         Units: mg/kg-dry           Diesel Range Organics (C10-C28)         16         5.2         1         05/12/08 16:01         NW         443436           Surr: n-Pentacosane         90.2         % 20-154         1         05/12/08 16:01         NW         443436           Prep Method         Prep Date         Prep Initials         Prep Factor         05/12/08 16:01         NW         443436           Gasoline Range Organics         ND         0.1         1         05/09/08 11:44         SFE         442852           Surr: 1-A-Difluorobenzene         97.5         % 63-142         1         05/09/08 11:44         SFE         442852           Surr: 4-Bromofluorobenzene         10.2         % 50-159         1         05/09/08 11:44         SFE         442852           Surr: 4-Bromofluorobenzene         97.5         % 63-142         1         05/09/08 11:44         SFE         442852           Surr: 4-Bromofluorobenzene         97.5         SFE         1.00         Units: mg/kg-dry         Choride <th>Client Sample ID: C12-</th> <th>Bot-9'</th> <th></th> <th></th> <th>Col</th> <th>lected:</th> <th>04/29/2008 1</th> <th>6:13</th> <th>3 SPL Sam</th> <th>ple IC</th> <th><b>D:</b> 0805</th> <th>0489-09</th>	Client Sample ID: C12-	Bot-9'			Col	lected:	04/29/2008 1	6:13	3 SPL Sam	ple IC	<b>D:</b> 0805	0489-09
Analyses/Method         Result         QUAL         Rep.Limit         Dil. Factor         Date Analyzed         Analyst         Seq. #           DIESEL RANGE ORGANICS         MCL         SW8015B         Units: mg/kg-dry           Diesel Range Organics (C10-C28)         16         5.2         1         05/12/08 16:01         NW         4434366           Surr: n-Pertacesane         90.2         % 20-154         1         05/12/08 16:01         NW         4434366           Prep Method         Prep Date         Prep Initials         Prep Factor         05/10/2008 16:38         QMT         1.00           GASOLINE RANGE ORGANICS         MCL         SW8015B         Units: mg/kg-dry         Gasoline Range Organics         ND         0.1         1         05/09/08 11:44         SFE         4428524           Surr: 1.4-Difluorobenzene         97.5         % 63-142         1         05/09/08 11:44         SFE         4428524           Surr: 4-Bromofluorobenzene         10.2         % 50-159         1         05/09/08 11:44         SFE         4428524           SW5030B         06/02/008 12:56         SFE         1.00         Units: mg/kg-dry         Chloride         10.3         2         05/10/08 11:34         A_E         4428764           O					Sit	e: Ma	aljamar, NM					
DIESEL RANGE ORGANICS         MCL         SW8015B         Units: mg/kg-dry           Diesel Range Organics (C10-C28)         16         5.2         1         05/12/08 16:01         NW         443436           Surr: n-Pentacosane         90.2         %         20-154         1         05/12/08 16:01         NW         443436           Erep.Method         Prep.Date         Prep.Initials         Prep.Factor         1         05/12/08 16:01         NW         443436           Gasoline Range Organics         ND         0.1         1         05/09/08 11:44         SFE         442852           Surr: 1.4-Diffuorobenzene         97.5         %         63-142         1         05/09/08 11:44         SFE         442852           Surr: 1.4-Diffuorobenzene         10.2         %         50-159         1         05/09/08 11:44         SFE         442852           Surr: 1.4-Diffuorobenzene         10.2         %         50-159         1         05/09/08 11:44         SFE         442852           Surr: 1.4-Diffuorobenzene         12.8         10.3         2         05/10/08 11:34         A_E         442876           ION CHROMATOGRAPHY         MCL         E300.0 MOD         Units: mg/kg-dry         Chloride         1         05/	Analyses/Method		Result	QUAL	R	ep.Limit	Dil.	Fact	or Date Analy	zed	Analyst	Seq. #
Diesel Range Organics (C10-C28)         16         5.2         1         05/12/08 16:01         NW         4434364           Surr: n-Pentaccosane         90.2         % 20-154         1         05/12/08 16:01         NW         4434364 <u>Prep Method</u> Prep Date         Prep Initials         Prep Factor         1         05/12/08 16:01         NW         4434364           Gasoline Range Organics         ND         0.1         1         05/09/08 11:44         SFE         4428523           Surr: 1-bifluorobenzene         97.5         % 63-142         1         05/09/08 11:44         SFE         4428523           Surr: 4-Bromofluorobenzene         10.2         % 50-159         1         05/09/08 11:44         SFE         4428523           Prep Method         Prep Date         Prep Factor         SW5030B         05/08/2008 12:56         SFE         1.00           ION CHROMATOGRAPHY         MCL         E300.0 MOD         Units: mg/kg-dry         Chloride         1:34         A_E         4428764           ION CHROMATOGRAPHY - SPLP         MCL         SW9056         Units: mg/kg         4428764           Chloride         6.51         0.5         1         05/10/08 1:34         A_E         4428764	DIESEL RANGE ORGA	NICS					MCL		SW8015B	Un	its: mg/kg	g-dry
Surr: n-Pentacosane         90.2         % 20-154         1         05/12/08 16:01         NW         4434363           Prep Method         Prep Date         Prep Initials         Prep Factor         SW3550B         05/10/2008 16:38         QMT         1.00           GASOLINE RANGE ORGANICS         MCL         SW8015B         Units: mg/kg-dry           Gasoline Range Organics         ND         0.1         1         05/09/08 11:44         SFE         4428523           Surr: 1.4-Difluorobenzene         97.5         % 63-142         1         05/09/08 11:44         SFE         4428523           Surr: 4-Bromofluorobenzene         102         % 50-159         1         05/09/08 11:44         SFE         4428523           Prep Method         Prep Date         Prep Initials         Prep Factor         SW3030B         05/08/2008 12:56         SFE         1.00           ION CHROMATOGRAPHY         MCL         E300.0 MOD         Units: mg/kg-dry           Chloride         128         10.3         2         05/10/08 1:34         A_E         4428760           ION CHROMATOGRAPHY - SPLP         MCL         SW9056         Units: mg/kg-dry           Chloride         6.51         0.5         1         05/10/08 1:32         A_E	Diesel Range Organics (0	C10-C28)	16			5.2		1	05/12/08 1	6:01	NW	4434365
Prep Method         Prep Date         Prep Initials         Prep Eactor           GASOLINE RANGE ORGANICS         MCL         SW8015B         Units: mg/kg-dry           Gasoline Range Organics         ND         0.1         1         05/09/08 11:44         SFE         4428523           Surr: 1.4-Diffuorobenzene         97.5         % 63-142         1         05/09/08 11:44         SFE         4428523           Surr: 4-Bromofluorobenzene         102         % 50-159         1         05/09/08 11:44         SFE         4428523           Prep Method         Prep Date         Prep Initials         Prep Factor         SW5030B         05/08/2008 12:56         SFE         1.00           ION CHROMATOGRAPHY         MCL         E300.0 MOD         Units: mg/kg-dry           Chloride         128         10.3         2         05/10/08 1:34         A_E         4428760           ION CHROMATOGRAPHY - SPLP         MCL         SW9056         Units: mg/kg-dry         Chloride         Chloride         4428760           ION CHROMATOGRAPHY - SPLP         MCL         SW9056         Units: mg/L         4428760           Chloride         6.51         0.5         1         05/10/08 1:34         A_E         4428960           Choride	Surr: n-Pentacosane		90.2		%	20-154		1	05/12/08 1	6:01	NW	4434365
SW3550B         05/10/2008 16:38         QMT         1.00           GASOLINE RANGE ORGANICS         MCL         SW8015B         Units: mg/kg-dry           Gasoline Range Organics         ND         0.1         1         05/09/08 11:44         SFE         4428523           Surr: 1.4-Difluorobenzene         97.5         %         63-142         1         05/09/08 11:44         SFE         4428523           Surr: 4-Bromofluorobenzene         102         %         50-159         1         05/09/08 11:44         SFE         4428523           Prep Method         Prep Date         Prep Factor         SW5030B         05/08/2008 12:56         SFE         1.00           ION CHROMATOGRAPHY         MCL         E300.0 MOD         Units: mg/kg-dry           Chloride         128         10.3         2         05/10/08 11:34         A_E         4428760           ION CHROMATOGRAPHY - SPLP         MCL         SW9056         Units: mg/kg-dry         Chloride         6.51         0.5         1         05/13/08 2:20         A_E         4438893           Exech Method         Leach Initials         SW1312         05/09/2008         GF         Image: Straight and the straight and the straight and the straight and the straight and the strais and the straight and the straight and the straig	Prep Method	Prep Date		Prep Initials	Prep	Factor						
GASOLINE RANGE ORGANICS         MCL         SW8015B         Units: mg/kg-dry           Gasoline Range Organics         ND         0.1         1         05/09/08 11:44         SFE         4428523           Surr: 1,4-Difluorobenzene         97.5         %         63-142         1         05/09/08 11:44         SFE         4428523           Surr: 4-Bromofluorobenzene         102         %         50-159         1         05/09/08 11:44         SFE         4428523           Prep Method         Prep Date         Prep Initials         Prep Factor         1         05/09/08 11:34         A_E         4428764           ON CHROMATOGRAPHY         MCL         E300.0 MOD         Units: mg/kg-dry         Chloride         1.03         2         05/10/08 1:34         A_E         4428764           ION CHROMATOGRAPHY         MCL         SW9056         Units: mg/kg-dry         Chloride         1.05/10/08 1:324         A_E         4428764           ION CHROMATOGRAPHY - SPLP         MCL         SW9056         Units: mg/kg-dry         Chloride         A_E         4428764           Chloride         6.51         0.5         1         05/10/08 16:34         A_E         4428764           SW1312         05/09/2008         GF         GE	SW3550B	05/10/2008 16:3	8	QMT	1.00							
Gasoline Range Organics         ND         0.1         1         05/09/08 11:44         SFE         4428523           Surr: 1,4-Diffuorobenzene         97.5         %         63:142         1         05/09/08 11:44         SFE         4428523           Surr: 4-Bromofluorobenzene         102         %         50-159         1         05/09/08 11:44         SFE         4428523           Prep Method         Prep Date         Prep Initials         Prep Factor         SW         SW         SE         4428524           MCL         E300.0 MOD         Units: mg/kg-dry         MCL         E300.0 MOD         Units: mg/kg-dry           Chloride         128         10.3         2         05/10/08 1:34         A_E         4428760           ON CHROMATOGRAPHY         MCL         SW9056         Units: mg/kg-dry         Chloride         Chloride         6.51         0.5         1         05/13/08 2:20         A_E         4433897           Chloride         6.51         0.5         1         05/13/08 2:20         A_E         4433897           Chloride         6.51         0.5         1         05/10/08 13:22         ESK         442900           SPLP VOLATILE ORGANICS         MCL         D2216         Units: wt% </td <td>GASOLINE RANGE OF</td> <td>RGANICS</td> <td></td> <td></td> <td></td> <td></td> <td>MCL</td> <td></td> <td>SW8015B</td> <td>Un</td> <td>its: mg/kg</td> <td>g-dry</td>	GASOLINE RANGE OF	RGANICS					MCL		SW8015B	Un	its: mg/kg	g-dry
Surr: 1,4-Difluorobenzene         97.5         % 63-142         1         05/09/08 11:44         SFE         4428523           Surr: 4-Bromofluorobenzene         102         % 50-159         1         05/09/08 11:44         SFE         4428523           Prep Method         Prep Date         Prep Initials         Prep Factor           SW 5030B         05/08/2008 12:56         SFE         1.00         Units: mg/kg-dry           Chloride         128         10.3         2         05/10/08 1:34         A_E         4428760           ION CHROMATOGRAPHY         MCL         SW9056         Units: mg/kg-dry         Chloride         6.51         0.5         1         05/13/08 2:20         A_E         4423860           Chloride         6.51         0.5         1         05/13/08 2:20         A_E         4433890           Leach Method         Leach Method         Leach Initials         SW1312         05/09/2008         GF           Percent Moisture         3.28         0         1         05/10/08 16:55         LT         4429934           Ethylbenzene         ND         5         1         05/10/08 16:55         LT         4429934           Toluene         ND         5         1         05/10/08 16	Gasoline Range Organics	5	ND			0.1		1	05/09/08 1	1:44	SFE	4428529
Surr: 4-Bromofluorobenzene         102         % 50-159         1         05/09/08 11:44         SFE         4428523           Prep Method         Prep Date         Prep Initials         Prep Factor         SW 5030B         05/08/2008 12:56         SFE         1.00           ION CHROMATOGRAPHY         MCL         E300.0 MOD         Units: mg/kg-dry           Chloride         128         10.3         2         05/10/08 1:34         A_E         4428760           ION CHROMATOGRAPHY - SPLP         MCL         SW9056         Units: mg/kg-dry           Chloride         6.51         0.5         1         05/13/08 2:20         A_E         4433892           Leach Method         Leachate Date         Leach Initials         SW/1312         05/09/2008         GF           Percent Moisture         3.28         0         1         05/08/08 13:22         ESK         4424907           SPLP VOLATILE ORGANICS         MCL         SW8260B         Units: wt%         Percent           Benzene         ND         5         1         05/10/08 16:55         LT         4429933           Toluene         ND         5         1         05/10/08 16:55         LT         4429933           Toluene         ND	Surr: 1,4-Difluorobenze	ene	97.5		%	63-142		1	05/09/08 1	1:44	SFE	4428529
Prep Method         Prep Date         Prep Initials         Prep Factor           SW 5030B         05/08/2008 12:56         SFE         1.00           ION CHROMATOGRAPHY         MCL         E300.0 MOD         Units: mg/kg-dry           Chloride         128         10.3         2         05/10/08 1:34         A_E         4428760           ION CHROMATOGRAPHY - SPLP         MCL         SW9056         Units: mg/L         Chloride         6.51         0.5         1         05/13/08 2:20         A_E         4433890           Chloride         6.51         0.5         1         05/09/2008         GF         GF           Percent Moisture         3.28         0         1         05/08/08 13:22         ESK         4424907           SPLP VOLATILE ORGANICS         MCL         SW8260B         Units: ug/L           Benzene         ND         5         1         05/10/08 16:55         LT         4429938           Toluene         ND         5         1         05/10/08 16:55         LT         4429938           Gruppene         ND         5         1         05/10/08 16:55         LT         4429938           Gruppene         ND         5         1         05/10/08 16:55	Surr: 4-Bromofluorober	nzene	102		%	50-159		1	05/09/08 1	1:44	SFE	4428529
SW 5030B         05/08/2008 12:56         SFE         1.00           ION CHROMATOGRAPHY         MCL         E300.0 MOD         Units: mg/kg-dry           Chloride         128         10.3         2         05/10/08 1:34         A_E         4428760           ION CHROMATOGRAPHY - SPLP         MCL         SW9056         Units: mg/L           Chloride         6.51         0.5         1         05/13/08 2:20         A_E         4433893           Leach Method         Leachate Date         Leach Initials         SW 1312         05/09/2008         GF           Percent Moisture         3.28         0         1         05/08/08 13:22         ESK         4428930           SPLP VOLATILE ORGANICS         MCL         D2216         Units: ug/L         Benzene         Benzene         ND         5         1         05/10/08 16:55         LT         4429330           Toluene         ND         5         1         05/10/08 16:55         LT         4429330           m,p-Xylene         ND         5         1         05/10/08 16:55         LT         4429330           o-Xylene         ND         5         1         05/10/08 16:55         LT         4429330           o-Xylene <td< td=""><td>Prep Method</td><td>Prep Date</td><td></td><td>Prep Initials</td><td>Prep</td><td>Factor</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Prep Method	Prep Date		Prep Initials	Prep	Factor						
ION CHROMATOGRAPHY         MCL         E300.0 MOD         Units: mg/kg-dry           Chloride         128         10.3         2         05/10/08         1:34         A_E         4428760           ION CHROMATOGRAPHY - SPLP         MCL         SW9056         Units: mg/L           Chloride         6.51         0.5         1         05/13/08         2:20         A_E         443889           Image: Chloride         6.51         0.5         1         05/13/08         2:20         A_E         443889           Image: Chloride         6.51         0.5         1         05/13/08         2:20         A_E         443889           Image: Chloride         6.51         0.5         1         05/13/08         2:20         A_E         443889           Image: Chloride         6.51         0.5         1         05/19/08         2:20         A_E         443889           Image: Chloride         0.5         1         05/09/2008         GF         Image: Chloride         Ima	SW5030B	05/08/2008 12:5	6	SFE	1.00							
Chloride         128         10.3         2         05/10/08 1:34         A_E         4428760           ION CHROMATOGRAPHY - SPLP         MCL         SW9056         Units: mg/L         4428760           Chloride         6.51         0.5         1         05/13/08 2:20         A_E         4433893           Leach Method         Leachate Date         Leach Initials         SW1312         05/09/2008         GF           PERCENT MOISTURE         MCL         D2216         Units: wt%         Percent Moisture         3.28         0         1         05/08/08 13:22         ESK         4428936           SPLP VOLATILE ORGANICS         MCL         SW8260B         Units: ug/L         Benzene         ND         5         1         05/10/08 16:55         LT         4428936           Toluene         ND         5         1         05/10/08 16:55         LT         4429936           m,p-Xylene         ND         5         1         05/10/08 16:55         LT         4429936           with transmer         ND         5         1         05/10/08 16:55         LT         4429936           SPLP VOLATILE ORGANICS         ND         5         1         05/10/08 16:55         LT         4429936	ION CHROMATOGRAF	РНΥ					MCL	E3	00.0 MOD	Un	its: mq/ko	a-drv
ION CHROMATOGRAPHY - SPLP         MCL         SW9056         Units: mg/L           Chloride         6.51         0.5         1         05/13/08 2:20         A_E         4433893           Leach Method         Leachate Date         Leach Initials           SW1312         05/09/2008         GF           PERCENT MOISTURE         MCL         D2216         Units: wt%           Percent Moisture         3.28         0         1         05/08/08 13:22         ESK         4424907           SPLP VOLATILE ORGANICS         MCL         SW8260B         Units: ug/L         Method         Ethylbenzene         ND         5         1         05/10/08 16:55         LT         4429938           Toluene         ND         5         1         05/10/08 16:55         LT         4429938           m,p-Xylene         ND         5         1         05/10/08 16:55         LT         4429938           o-Xylene         ND         5         1         05/10/08 16:55         LT         4429938           width         ND         5         1         05/10/08 16:55         LT         4429938           Main         ND         5         1         05/10/08 16:55         LT         4429938 <td>Chloride</td> <td></td> <td>128</td> <td></td> <td></td> <td>10.3</td> <td></td> <td>2</td> <td>05/10/08</td> <td>1:34</td> <td>A_E</td> <td>4428760</td>	Chloride		128			10.3		2	05/10/08	1:34	A_E	4428760
Chloride         6.51         0.5         1         05/13/08 2:20         A_E         4433893           Leach Method         Leachate Date         Leach Initials         SW1312         05/09/2008         GF           PERCENT MOISTURE         MCL         D2216         Units: wt%           Percent Moisture         3.28         0         1         05/10/08 13:22         ESK         4429938           SPLP VOLATILE ORGANICS         MCL         SW8260B         Units: ug/L         4429938           Benzene         ND         5         1         05/10/08 16:55         LT         4429938           Toluene         ND         5         1         05/10/08 16:55         LT         4429938           m,p-Xylene         ND         5         1         05/10/08 16:55         LT         4429938           wtp-Xylene         ND         5         1         05/10/08	ION CHROMATOGRAF	PHY - SPLP					MCL		SW9056	Un	its: mg/L	
Leach Method         Leachate Date         Leach Initials           SW1312         05/09/2008         GF           PERCENT MOISTURE         MCL         D2216         Units: wt%           Percent Moisture         3.28         0         1         05/08/08 13:22         ESK         4424907           SPLP VOLATILE ORGANICS         MCL         SW8260B         Units: ug/L           Benzene         ND         5         1         05/10/08 16:55         LT         4429938           Ethylbenzene         ND         5         1         05/10/08 16:55         LT         4429938           Toluene         ND         5         1         05/10/08 16:55         LT         4429938           m,p-Xylene         ND         5         1         05/10/08 16:55         LT         4429938           o-Xylene         ND         5         1         05/10/08 16:55         LT         4429938           Xylenes,Total         ND         5         1         05/10/08 16:55         LT         4429938	Chloride		6.51			0.5		1	05/13/08	2:20	A_E	4433893
PERCENT MOISTURE         MCL         D2216         Units: wt%           Percent Moisture         3.28         0         1         05/09/2008         GF           SPLP VOLATILE ORGANICS         MCL         SW8260B         Units: ug/L           Benzene         ND         5         1         05/10/08 16:55         LT         4429938           Ethylbenzene         ND         5         1         05/10/08 16:55         LT         4429938           Toluene         ND         5         1         05/10/08 16:55         LT         4429938           m,p-Xylene         ND         5         1         05/10/08 16:55         LT         4429938           o-Xylene         ND         5         1         05/10/08 16:55         LT         4429938           Xylenes,Total         ND         5         1         05/10/08 16:55         LT         4429938							Leach Method		Leachate Date		Leach	Initials
PERCENT MOISTURE         MCL         D2216         Units: wt%           Percent Moisture         3.28         0         1         05/08/08 13:22         ESK         4424907           SPLP VOLATILE ORGANICS         MCL         SW8260B         Units: ug/L           Benzene         ND         5         1         05/10/08 16:55         LT         4429938           Ethylbenzene         ND         5         1         05/10/08 16:55         LT         4429938           Toluene         ND         5         1         05/10/08 16:55         LT         4429938           m,p-Xylene         ND         5         1         05/10/08 16:55         LT         4429938           o-Xylene         ND         5         1         05/10/08 16:55         LT         4429938           Xylenes,Total         ND         5         1         05/10/08 16:55         LT         4429938							SW1312		05/09/2008		GF	
Model         Definition           Percent Moisture         3.28         0         1         05/08/08 13:22         ESK         4424907           SPLP VOLATILE ORGANICS         MCL         SW8260B         Units: ug/L           Benzene         ND         5         1         05/10/08 16:55         LT         4429938           Ethylbenzene         ND         5         1         05/10/08 16:55         LT         4429938           Toluene         ND         5         1         05/10/08 16:55         LT         4429938           m,p-Xylene         ND         5         1         05/10/08 16:55         LT         4429938           o-Xylene         ND         5         1         05/10/08 16:55         LT         4429938           Xylenes,Total         ND         5         1         05/10/08 16:55         LT         4429938	PERCENT MOISTURE						MCL		D2216	Un	its: wt%	
SPLP VOLATILE ORGANICS         MCL         SW8260B         Units: ug/L           Benzene         ND         5         1         05/10/08 16:55         LT         4429938           Ethylbenzene         ND         5         1         05/10/08 16:55         LT         4429938           Toluene         ND         5         1         05/10/08 16:55         LT         4429938           m,p-Xylene         ND         5         1         05/10/08 16:55         LT         4429938           o-Xylene         ND         5         1         05/10/08 16:55         LT         4429938           Xylenes,Total         ND         5         1         05/10/08 16:55         LT         4429938	Percent Moisture		3.28			0		1	05/08/08 1	3:22	ESK	4424907
Benzene         ND         5         1         05/10/08 16:55         LT         4429938           Ethylbenzene         ND         5         1         05/10/08 16:55         LT         4429938           Toluene         ND         5         1         05/10/08 16:55         LT         4429938           m,p-Xylene         ND         5         1         05/10/08 16:55         LT         4429938           o-Xylene         ND         5         1         05/10/08 16:55         LT         4429938           xylenes,Total         ND         5         1         05/10/08 16:55         LT         4429938	SPLP VOLATILE ORG	ANICS					MCL		SW8260B	Un	its: uq/L	
Ethylbenzene         ND         5         1         05/10/08 16:55         LT         442933           Toluene         ND         5         1         05/10/08 16:55         LT         442933           m,p-Xylene         ND         5         1         05/10/08 16:55         LT         442933           o-Xylene         ND         5         1         05/10/08 16:55         LT         442933           Xylenes,Total         ND         5         1         05/10/08 16:55         LT         442933	Benzene		ND			5		1	05/10/08 1	6:55	LT	4429938
Toluene         ND         5         1         05/10/08 16:55         LT         4429938           m,p-Xylene         ND         5         1         05/10/08 16:55         LT         4429938           o-Xylene         ND         5         1         05/10/08 16:55         LT         4429938           xylenes,Total         ND         5         1         05/10/08 16:55         LT         4429938	Ethylbenzene		ND			5		1	05/10/08 1	6:55	LT	4429938
m,p-Xylene         ND         5         1         05/10/08 16:55         LT         4429938           o-Xylene         ND         5         1         05/10/08 16:55         LT         4429938           Xylenes,Total         ND         5         1         05/10/08 16:55         LT         4429938	Toluene		ND			5		1	05/10/08 1	6:55	LT	4429938
o-Xylene         ND         5         1         05/10/08 16:55         LT         4429938           Xylenes,Total         ND         5         1         05/10/08 16:55         LT         4429938	m,p-Xylene		ND			5		1	05/10/08 1	6:55	LT	4429938
Xylenes,Total         ND         5         1         05/10/08 16:55         LT         4429938	o-Xylene		ND			5		1	05/10/08 1	6:55	LT	4429938
	Xylenes,Total		ND			5		1	05/10/08 1	6:55	LT	4429938
Surr: 1,2-Dichloroethane-d4 100 % 62-130 1 05/10/08 16:55 LT 4429938	Surr: 1,2-Dichloroethar	ne-d4	100		%	62-130		1	05/10/08 1	6:55	LT	4429938
Surr: 4-Bromofluorobenzene 90.0 % 70-130 1 05/10/08 16:55 LT 4429938	Surr: 4-Bromofluorober	nzene	90.0		%	70-130		1	05/10/08 1	6:55	LT	4429938
Surr: Toluene-d8         94.0         %         74-122         1         05/10/08 16:55         LT         4429938	Surr: Toluene-d8		94.0		%	74-122		1	05/10/08 1	6:55	LT	4429938

Leach Method	Leachate Date	Leach Initials
SW1312	05/09/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C12-Bot-9'			Collected: 04/29/2008 16:13				SPL Sample ID: 08050489-09			0489-09
			Site	e: Malj	amar, NM					
Analyses/Method	Result	QUAL	Re	p.Limit	Dil. Fa	ctor	Date Analy	zed	Analyst	Seq. #
VOLATILE ORGANICS BY MET	HOD 8260B				MCL	SW	/8260B	Un	its: ug/kg	-dry
Benzene	ND			5.1	1		05/10/08	2:09	JC	4429748
Ethylbenzene	ND			5.1	1		05/10/08	2:09	JC	4429748
Toluene	ND			5.1	1		05/10/08	2:09	JC	4429748
m,p-Xylene	ND			5.1	1		05/10/08	2:09	JC	4429748
o-Xylene	ND			5.1	1		05/10/08	2:09	JC	4429748
Xylenes,Total	ND			5.1	1		05/10/08	2:09	JC	4429748
Surr: 1,2-Dichloroethane-d4	84.8		%	64-130	1		05/10/08	2:09	JC	4429748
Surr: 4-Bromofluorobenzene	97.0		%	62-130	1		05/10/08	2:09	JC	4429748
Surr: Toluene-d8	105		%	70-140	1		05/10/08	2:09	JC	4429748

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:30	JC	0.99

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

\* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C10-SW-N			Coll	lected:	04/29/200	8 14:11	SPL Sample	<b>ID:</b> 0805	50489-10
			Sit	e: M	laljamar, NI	м			
Analyses/Method	Result	QUAL	Re	ep.Limit	: C	Dil. Factor	Date Analyzed	d Analyst	Seq. #
DIESEL RANGE ORGANICS					MCL	SI	W8015B L	Jnits: mg/k	g-dry
Diesel Range Organics (C10-C28)	ND			5.6	6	1	05/12/08 16:2	4 NW	4434366
Surr: n-Pentacosane	99.3		%	20-154	ŀ	1	05/12/08 16:24	4 NW	4434366
Prep Method Prep Date		Prep Initials	Prep	Factor	]				
SW3550B 05/10/2008 16:3	38	QMT	1.00						
GASOLINE RANGE ORGANICS					MCL	SI	W8015B L	Jnits: mg/k	g-dry
Gasoline Range Organics	ND			0.11		1	05/09/08 12:1:	2 SFE	4428530
Surr: 1,4-Difluorobenzene	97.2		%	63-142	2	1	05/09/08 12:1:	2 SFE	4428530
Surr: 4-Bromofluorobenzene	106		%	50-159	)	1	05/09/08 12:12	2 SFE	4428530
Prep Method Prep Date		Prep Initials	Prep	Factor	]				
SW5030B 05/08/2008 12:5	57	SFE	1.00						
ION CHROMATOGRAPHY					MCL	E300	.0 MOD L	Jnits: mg/k	g-dry
Chloride	16			5.64	ļ	1	05/10/08 1:5	1 A_E	4428761
PERCENT MOISTURE					MCL		D2216 L	Jnits: wt%	
Percent Moisture	11.3			C	)	1	05/08/08 13:2	2 ESK	4424906
VOLATILE ORGANICS BY METHOD	8260B	1			MCL	SI	W8260B L	Jnits: ug/kg	g-dry
Benzene	ND			5.7	,	1	05/10/08 2:3	8 JC	4429749
Ethylbenzene	ND			5.7	,	1	05/10/08 2:3	8 JC	4429749
Toluene	ND			5.7	,	1	05/10/08 2:3	8 JC	4429749
m,p-Xylene	ND			5.7	,	1	05/10/08 2:3	8 JC	4429749
o-Xylene	ND			5.7	,	1	05/10/08 2:3	8 JC	4429749
Xylenes,Total	ND			5.7	,	1	05/10/08 2:3	8 JC	4429749
Surr: 1,2-Dichloroethane-d4	89.3		%	64-130	)	1	05/10/08 2:3	8 JC	4429749
Surr: 4-Bromofluorobenzene	97.2		%	62-130	)	1	05/10/08 2:3	8 JC	4429749
Surr: Toluene-d8	103		%	70-140	)	1	05/10/08 2:3	8 JC	4429749

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:32	JC	1.01

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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8880 INTERCHANGE DRIVE

HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C19-SW-N			Colle	cted: 0	)5/02/2008	13:22	SPL Sam	ple l	<b>D:</b> 0805	0489-11
			Site	: Mal	jamar, NM					
Analyses/Method	Result	QUAL	Rep	o.Limit	Di	I. Factor	Date Anal	yzed	Analyst	Seq. #
DIESEL RANGE ORGANICS					MCL	SV	V8015B	Ur	nits: mg/kg	J-dry
Diesel Range Organics (C10-C28)	ND			5.6		1	05/12/08	16:46	NW	4434367
Surr: n-Pentacosane	111		%	20-154		1	05/12/08	16:46	NW	4434367
Prep Method Prep Date		Prep Initials	Prep F	actor						
SW3550B 05/10/2008	16:38	QMT	1.00							
GASOLINE RANGE ORGANICS					MCL	SV	V8015B	Ur	nits: mg/kg	J-dry
Gasoline Range Organics	ND			0.11		1	05/09/08	12:41	SFE	4428531
Surr: 1,4-Difluorobenzene	97.4		%	63-142		1	05/09/08	12:41	SFE	4428531
Surr: 4-Bromofluorobenzene	106		%	50-159		1	05/09/08	12:41	SFE	4428531
Prep Method Prep Date		Prep Initials	Prep F	actor						
SW5030B 05/08/2008	12:58	SFE	1.00							
ION CHROMATOGRAPHY					MCL	E300	.0 MOD	Ur	nits: mg/kg	J-dry
Chloride	31			5.6		1	05/10/08	3 3:13	A_E	4428766
PERCENT MOISTURE					MCL		D2216	Ur	nits: wt%	
Percent Moisture	10.7			0		1	05/08/08	13:22	ESK	4424904
VOLATILE ORGANICS BY METH	OD 8260B				MCL	SV	V8260B	Ur	nits: ug/kg	-dry
Benzene	ND			5.6		1	05/10/08	3:06	JC	4429750
Ethylbenzene	ND			5.6		1	05/10/08	3:06	JC	4429750
Toluene	ND			5.6		1	05/10/08	3:06	JC	4429750
m,p-Xylene	ND			5.6		1	05/10/08	3:06	JC	4429750
o-Xylene	ND			5.6		1	05/10/08	3:06	JC	4429750
Xylenes,Total	ND			5.6		1	05/10/08	3 3:06	JC	4429750
Surr: 1,2-Dichloroethane-d4	83.8		%	64-130		1	05/10/08	3 3:06	JC	4429750
Surr: 4-Bromofluorobenzene	95.8		%	62-130		1	05/10/08	3:06	JC	4429750
										-

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:34	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Collected: 05/02/2008 12:51 08050489-12 Client Sample ID: C18-Bot-6 SPL Sample ID: Site: Maljamar, NM Result QUAL Analyses/Method Rep.Limit Dil. Factor Date Analyzed Analyst Seq. # **DIESEL RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND Diesel Range Organics (C10-C28) 05/12/08 17:58 NW 4434369 5.1 1 Surr: n-Pentacosane 90.7 05/12/08 17:58 NW 4434369 % 20-154 1 Prep Method Prep Date Prep Initials Prep Factor 05/10/2008 16:38 QMT SW3550B 1.00 **GASOLINE RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND 05/09/08 13:19 SFE 4428532 Gasoline Range Organics 0.1 1 63-142 05/09/08 13:19 4428532 Surr: 1,4-Difluorobenzene 99.4 % 1 SFE 4428532 Surr: 4-Bromofluorobenzene 100 % 50-159 1 05/09/08 13:19 SFE Prep Method Prep Date Prep Initials Prep Factor SW5030B 05/08/2008 12:58 SFE 1.00 ION CHROMATOGRAPHY MCL E300.0 MOD Units: mg/kg-dry Chloride ND 5.11 05/10/08 3:29 A\_E 4428767 1 **ION CHROMATOGRAPHY - SPLP** MCL SW9056 Units: mg/L Chloride ND 0.5 1 05/13/08 2:36 A\_E 4433894 Leach Method Leachate Date Leach Initials SW1312 05/09/2008 GF PERCENT MOISTURE MCL D2216 Units: wt% 0 Percent Moisture 2.09 1 05/08/08 13:22 ESK 4424903 SPLP VOLATILE ORGANICS MCL SW8260B Units: ug/L ND 5 4429939 Benzene 1 05/10/08 17:21 LT 5 4429939 Ethylbenzene ND 1 05/10/08 17:21 LT Toluene ND 5 1 05/10/08 17:21 LT 4429939 m,p-Xylene ND 5 1 05/10/08 17:21 LT 4429939 4429939 o-Xylene ND 5 1 05/10/08 17:21 LT ND 5 4429939 Xylenes,Total 1 05/10/08 17:21 I T Surr: 1,2-Dichloroethane-d4 100 % 62-130 1 05/10/08 17:21 LT 4429939 Surr: 4-Bromofluorobenzene 92.0 % 70-130 1 05/10/08 17:21 LT 4429939 Surr: Toluene-d8 96.0 74-122 1 05/10/08 17:21 4429939 % I T

Leach Method	Leachate Date	Leach Initials
SW1312	05/09/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C18-Bot-6'			Collected: 05/02/2008 12:51				SPL Sam	ole II	<b>D:</b> 0805	08050489-12	
			Site	e: Malja	amar, NM						
Analyses/Method	Result	QUAL	Re	p.Limit	Dil	Factor	Date Analy	zed	Analyst	Seq. #	
VOLATILE ORGANICS BY MET	HOD 8260B				MCL	SV	V8260B	Un	its: ug/kg	J-dry	
Benzene	ND			5.1		1	05/10/08	3:35	JC	4429751	
Ethylbenzene	ND			5.1		1	05/10/08	3:35	JC	4429751	
Toluene	ND			5.1		1	05/10/08	3:35	JC	4429751	
m,p-Xylene	ND			5.1		1	05/10/08	3:35	JC	4429751	
o-Xylene	ND			5.1		1	05/10/08	3:35	JC	4429751	
Xylenes,Total	ND			5.1		1	05/10/08	3:35	JC	4429751	
Surr: 1,2-Dichloroethane-d4	87.6		%	64-130		1	05/10/08	3:35	JC	4429751	
Surr: 4-Bromofluorobenzene	97.6		%	62-130		1	05/10/08	3:35	JC	4429751	
Surr: Toluene-d8	104		%	70-140		1	05/10/08	3:35	JC	4429751	

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:36	JC	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/\!V}}\xspace$  - Analyte detected in the associated Method Blank

\* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON LABORATORY

8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C17	-SW-S			Col	lected	: 05/02/20	008 10:3	7 SPL Sar	nple I	<b>D:</b> 0805	0489-13
				Sit	te: N	laljamar,	NM				
Analyses/Method	R	esult	QUAL	R	ep.Limi	t	Dil. Fac	tor Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORGA	NICS					MC	L	SW8015B	Ur	nits: mg/k	g-dry
Diesel Range Organics (	C10-C28)	ND			5.′	1	1	05/12/08	18:20	NW	4434370
Surr: n-Pentacosane		89.9		%	20-154	4	1	05/12/08	18:20	NW	4434370
Prep Method	Prep Date		Prep Initials	Prep	Factor	]					
SW3550B	05/10/2008 16:38		QMT	1.00	)						
GASOLINE RANGE OF	RGANICS					МС	L	SW8015B	Ur	nits: mg/kg	g-dry
Gasoline Range Organics	6	ND			0.1	1	1	05/09/08	13:47	SFE	4428533
Surr: 1,4-Difluorobenze	ene	100		%	63-142	2	1	05/09/08	13:47	SFE	4428533
Surr: 4-Bromofluorober	nzene	101		%	50-159	9	1	05/09/08	13:47	SFE	4428533
Prep Method	Prep Date		Prep Initials	Prep	Factor	7					
SW5030B	05/08/2008 12:59		SFE	1.00	)						
ION CHROMATOGRAF	РНҮ					МС	L E	300.0 MOD	Ur	nits: mg/k	g-dry
Chloride		5.27			5.1	1	1	05/10/0	8 3:46	A_E	4428768
PERCENT MOISTURE						МС	L	D2216	Ur	nits: wt%	
Percent Moisture		2.16			(	0	1	05/08/08	13:22	ESK	4424902
VOLATILE ORGANICS	BY METHOD 82	260B				МС	L	SW8260B	Ur	nits: ug/kg	J-dry
Benzene		ND			5.2	2	1	05/10/0	8 4:04	JC	4429752
Ethylbenzene		ND			5.2	2	1	05/10/0	8 4:04	JC	4429752
Toluene		ND			5.2	2	1	05/10/0	8 4:04	JC	4429752
m,p-Xylene		ND			5.2	2	1	05/10/0	8 4:04	JC	4429752
o-Xylene		ND			5.2	2	1	05/10/0	8 4:04	JC	4429752
Xylenes,Total		ND			5.2	2	1	05/10/0	8 4:04	JC	4429752
Surr: 1,2-Dichloroethar	ne-d4	89.1		%	64-130	C	1	05/10/0	8 4:04	JC	4429752
Surr: 4-Bromofluorober	nzene	97.0		%	62-130	C	1	05/10/0	8 4:04	JC	4429752
Surr: Toluene-d8		111		%	70-140	0	1	05/10/0	8 4:04	JC	4429752
						_					

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:38	JC	1.01

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C14-	Bot-8'			Coll	ected:	05/01/2008 1	0:43	SPL Sam	ple l	<b>D:</b> 0805	0489-14
				Sit	e: Ma	aljamar, NM					
Analyses/Method	R	Result	QUAL	Re	ep.Limit	Dil.	Facto	or Date Analy	/zed	Analyst	Seq. #
DIESEL RANGE ORGA	NICS					MCL	ę	SW8015B	Ur	nits: mg/kg	g-dry
Diesel Range Organics (C	C10-C28)	ND			5.2		1	05/12/08 1	8:43	NW	4434371
Surr: n-Pentacosane		93.1		%	20-154		1	05/12/08 1	8:43	NW	4434371
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW3550B	05/10/2008 16:38		QMT	1.00							
GASOLINE RANGE OR	GANICS					MCL	ę	SW8015B	Ur	nits: mg/kg	g-dry
Gasoline Range Organics		ND			0.1		1	05/09/08 1	4:16	SFE	4428534
Surr: 1,4-Difluorobenze	ne	98.7		%	63-142		1	05/09/08 1	4:16	SFE	4428534
Surr: 4-Bromofluoroben	zene	98.4		%	50-159		1	05/09/08 1	4:16	SFE	4428534
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW5030B	05/08/2008 13:00		SFE	1.00							
ION CHROMATOGRAP	ΉY					MCL	E30	00.0 MOD	Ur	nits: mg/ka	a-drv
Chloride		46.2			5.18		1	05/10/08	4:02	A_E	4428769
ION CHROMATOGRAP	HY - SPLP					MCL		SW9056	Ur	nits: mg/L	
Chloride		2.93			0.5		1	05/13/08	3:26	A_E	4433897
						Leach Method		l eachate Date		l each l	nitials
						SW1312		05/09/2008		GF	India
PERCENT MOISTURE						MCL		D2216	Ur	nits: wt%	
Percent Moisture		3.45			0	-	1	05/08/08 1	3:22	ESK	4424901
SPLP VOLATILE ORGA	ANICS					MCL	Ś	SW8260B	Ur	nits: ug/L	
Benzene		ND			5		1	05/10/08 1	7:47	LT	4429940
Ethylbenzene		ND			5		1	05/10/08 1	7:47	LT	4429940
Toluene		ND			5		1	05/10/08 1	7:47	LT	4429940
m,p-Xylene		ND			5		1	05/10/08 1	7:47	LT	4429940
o-Xylene		ND			5		1	05/10/08 1	7:47	LT	4429940
Xylenes,Total		ND			5		1	05/10/08 1	7:47	LT	4429940
Surr: 1,2-Dichloroethan	e-d4	98.0		%	62-130		1	05/10/08 1	7:47	LT	4429940
Surr: 4-Bromofluoroben	zene	88.0		%	70-130		1	05/10/08 1	7:47	LT	4429940
Surr: Toluene-d8		96.0		%	74-122		1	05/10/08 1	7:47	LT	4429940

Leach Method	Leachate Date	Leach Initials
SW1312	05/09/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C14-Bot-8'			Collec	; <b>ted:</b> 05	5/01/2008	10:43	<b>SPL Sample ID:</b> 08050489-14			
			Site:	Malj	amar, NM					
Analyses/Method	Result	QUAL	Rep.	Limit	Dil	Factor	Date Analy	/zed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B					MCL	SV	V8260B	Un	its: ug/kg	-dry
Benzene	ND			5.2		1	05/10/08	4:33	JC	4429753
Ethylbenzene	ND			5.2		1	05/10/08	4:33	JC	4429753
Toluene	ND			5.2		1	05/10/08	4:33	JC	4429753
m,p-Xylene	ND			5.2		1	05/10/08	4:33	JC	4429753
o-Xylene	ND			5.2		1	05/10/08	4:33	JC	4429753
Xylenes,Total	ND			5.2		1	05/10/08	4:33	JC	4429753
Surr: 1,2-Dichloroethane-d4	84.3		% 64	4-130		1	05/10/08	4:33	JC	4429753
Surr: 4-Bromofluorobenzene	98.4		% 62	2-130		1	05/10/08	4:33	JC	4429753
Surr: Toluene-d8	102		% 70	)-140		1	05/10/08	4:33	JC	4429753

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:40	JC	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- ${\sf E}$  Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C15-SW-N Collected: 05/01/2008 11:07 08050489-15 SPL Sample ID: Site: Maljamar, NM Result QUAL Rep.Limit Dil. Factor Analyst Analyses/Method Date Analyzed Seq. # **DIESEL RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry Diesel Range Organics (C10-C28) ND 5.2 1 05/12/08 19:05 NW 4434372 Surr: n-Pentacosane 87.5 1 05/12/08 19:05 NW 4434372 % 20-154 Prep Method Prep Date Prep Initials Prep Factor SW3550B 05/10/2008 16:38 QMT 1.00 **GASOLINE RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND 05/09/08 14:44 SFE 4428535 Gasoline Range Organics 0.1 1 05/09/08 14:44 4428535 Surr: 1,4-Difluorobenzene 98.5 % 63-142 1 SFE 98.6 50-159 1 05/09/08 14:44 4428535 Surr: 4-Bromofluorobenzene % SFE Prep Method Prep Date Prep Initials Prep Factor SW5030B 05/08/2008 13:01 SFE 1.00 ION CHROMATOGRAPHY MCL E300.0 MOD Units: mg/kg-dry Chloride 255 20.9 4 05/10/08 4:19 A\_E 4428770 PERCENT MOISTURE MCL D2216 Units: wt% Percent Moisture 4.1 0 1 05/08/08 13:22 ESK 4424900 VOLATILE ODOANICE BY METHOD 9260D MACI CIMODOOD الملامين بمرادم ماسر

VULATILE URGANICS DT WET					SWOZOUD	UII	แร. นุ	j/kg-ury
Benzene	ND		5.2	1	05/10/08 5:	00	JC	4429754
Ethylbenzene	ND		5.2	1	05/10/08 5:	00	JC	4429754
Toluene	ND		5.2	1	05/10/08 5:	00	JC	4429754
m,p-Xylene	ND		5.2	1	05/10/08 5:	00	JC	4429754
o-Xylene	ND		5.2	1	05/10/08 5:	00	JC	4429754
Xylenes,Total	ND		5.2	1	05/10/08 5:	00	JC	4429754
Surr: 1,2-Dichloroethane-d4	92.7	%	64-130	1	05/10/08 5:	00	JC	4429754
Surr: 4-Bromofluorobenzene	92.7	%	62-130	1	05/10/08 5:	00	JC	4429754
Surr: Toluene-d8	94.8	%	70-140	1	05/10/08 5:	00	JC	4429754

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:42	JC	0.99

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C13-SW-N			Coll	ected:	04/30/2008	3 11:33	SPL San	nple I	<b>D:</b> 0805	0489-16
			Site	e: Ma	aljamar, NN	Λ				
Analyses/Method	Result	QUAL	Re	p.Limit	D	il. Factor	Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS					MCL	SV	V8015B	Ur	nits: mg/kg	g-dry
Diesel Range Organics (C10-C28)	ND			5.2		1	05/12/08	19:27	NW	4434373
Surr: n-Pentacosane	93.7		%	20-154		1	05/12/08	19:27	NW	4434373
Prep Method Prep Date		Prep Initials	Prep	Factor						
SW3550B 05/10/2008 16:	:38	QMT	1.00							
GASOLINE RANGE ORGANICS					MCL	SV	V8015B	Ur	nits: mg/kg	j-dry
Gasoline Range Organics	ND			0.1		1	05/09/08	15:13	SFE	4428536
Surr: 1,4-Difluorobenzene	99.2		%	63-142		1	05/09/08	15:13	SFE	4428536
Surr: 4-Bromofluorobenzene	101		%	50-159		1	05/09/08	15:13	SFE	4428536
Prep Method Prep Date		Prep Initials	Prep	Factor						
SW5030B 05/08/2008 13:	:02	SFE	1.00							
ION CHROMATOGRAPHY					MCL	E300	.0 MOD	Ur	nits: mg/kg	g-dry
Chloride	72.5			5.18		1	05/10/08	3 5:41	A_E	4428775
PERCENT MOISTURE					MCL		D2216	Ur	nits: wt%	
Percent Moisture	3.48			0		1	05/08/08	13:22	ESK	4424899
VOLATILE ORGANICS BY METHOD	) 8260B	1			MCL	SV	V8260B	Ur	nits: ug/kg	-dry
Benzene	ND			5.1		1	05/10/08	17:02	JC	4429765
Ethylbenzene	ND			5.1		1	05/10/08	17:02	JC	4429765
Toluene	ND			5.1		1	05/10/08	17:02	JC	4429765
m,p-Xylene	ND			5.1		1	05/10/08	17:02	JC	4429765
o-Xylene	ND			5.1		1	05/10/08	17:02	JC	4429765
Xylenes,Total	ND			5.1		1	05/10/08	17:02	JC	4429765
Surr: 1,2-Dichloroethane-d4	88.7		%	64-130		1	05/10/08	17:02	JC	4429765
Surr: 4-Bromofluorobenzene	04.9		0/	62 120		1	05/10/08	17:02	JC	4429765
	94.0		/0	02-130			00, 10,00			

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:44	JC	0.99

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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8880 INTERCHANGE DRIVE

HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C14-	-SW-N			Col	lecte	<b>d:</b> 0	5/01/2008	9:50	SPL Sam	ple I	<b>D:</b> 0805	0489-17
				Sit	te:	Malj	amar, NM					
Analyses/Method	Re	sult	QUAL	R	ep.Lin	nit	Dil	. Factor	Date Anal	yzed	Analyst	Seq. #
DIESEL RANGE ORGA	NICS						MCL	SV	V8015B	Ur	nits: mg/kg	g-dry
Diesel Range Organics (	C10-C28)	ND			5	5.2		1	05/12/08	19:50	NW	4434374
Surr: n-Pentacosane	9	2.3		%	20-1	54		1	05/12/08	19:50	NW	4434374
Prep Method	Prep Date		Prep Initials	Prep	o Facto	or						
SW3550B	05/10/2008 16:38		QMT	1.00	)							
GASOLINE RANGE OF	RGANICS						MCL	SV	V8015B	Ur	nits: mg/kg	g-dry
Gasoline Range Organics	6	ND			(	0.1		1	05/09/08	16:38	SFE	4428539
Surr: 1,4-Difluorobenze	ene 9	8.5		%	63-1	42		1	05/09/08	16:38	SFE	4428539
Surr: 4-Bromofluorober	nzene ć	102		%	50-1	59		1	05/09/08 -	16:38	SFE	4428539
Prep Method	Prep Date		Prep Initials	Prep	o Facto	or						
SW5030B	05/08/2008 13:02		SFE	1.00	)							
ION CHROMATOGRAF	РНҮ						MCL	E300	.0 MOD	Ur	nits: mg/kg	g-dry
Chloride	7	6.2			5.	18		1	05/10/08	5:57	A_E	4428776
PERCENT MOISTURE							MCL		D2216	Ur	nits: wt%	
Percent Moisture	3	.45				0		1	05/08/08	13:22	ESK	4424898
VOLATILE ORGANICS	BY METHOD 826	60B					MCL	SV	V8260B	Ur	nits: ug/kg	-dry
Benzene		ND			5	5.2		1	05/10/08	5:28	JC	4429755
Ethylbenzene		ND			Ę	5.2		1	05/10/08	5:28	JC	4429755
Toluene		ND			5	5.2		1	05/10/08	5:28	JC	4429755
m,p-Xylene		ND			5	5.2		1	05/10/08	5:28	JC	4429755
o-Xylene		ND			5	5.2		1	05/10/08	5:28	JC	4429755
Xylenes,Total		ND			5	5.2		1	05/10/08	5:28	JC	4429755
Surr: 1,2-Dichloroethar	ne-d4 9	1.8		%	64-1	30		1	05/10/08	5:28	JC	4429755
Surr: 4-Bromofluorober	nzene 9	5.8		%	62-1	30		1	05/10/08	5:28	JC	4429755
Surr: Toluene-d8	9	9.8		%	70-1	40		1	05/10/08	5:28	JC	4429755

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:50	JC	1.00

**Qualifiers:** 

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C15-SW-S			Col	lected:	05/01/2008	311:11	SPL Sam	ple II	<b>D:</b> 0805	0489-18
			Sit	te: Ma	aljamar, NN	1				
Analyses/Method	Result	QUAL	R	ep.Limit	Di	il. Factor	Date Analy	zed	Analyst	Seq. #
DIESEL RANGE ORGANICS					MCL	SV	V8015B	Un	nits: mg/kg	g-dry
Diesel Range Organics (C10-C28)	ND			5.1		1	05/12/08 2	0:12	NW	4434375
Surr: n-Pentacosane	88.2		%	20-154		1	05/12/08 2	0:12	NW	4434375
Prep Method Prep Date	2	Prep Initials	<u>Prep</u>	Factor						
SW3550B 05/10/200	08 16:38	QMT	1.00	)						
GASOLINE RANGE ORGANICS	5				MCL	SV	V8015B	Un	nits: mg/kg	g-dry
Gasoline Range Organics	ND			0.1		1	05/09/08 1	7:07	SFE	4428540
Surr: 1,4-Difluorobenzene	99.2		%	63-142		1	05/09/08 1	7:07	SFE	4428540
Surr: 4-Bromofluorobenzene	99.1		%	50-159		1	05/09/08 1	7:07	SFE	4428540
Prep Method Prep Date	2	Prep Initials	s Prep	Factor						
SW5030B 05/08/200	08 13:03	SFE	1.00	)						
ION CHROMATOGRAPHY					MCL	E300	.0 MOD	Un	nits: mg/kg	g-dry
Chloride	ND			5.14		1	05/10/08	6:14	A_E	4428777
PERCENT MOISTURE					MCL		D2216	Un	nits: wt%	
Percent Moisture	2.68			0		1	05/08/08 1	3:22	ESK	4424897
VOLATILE ORGANICS BY MET	HOD 8260B				MCL	SV	V8260B	Un	nits: ug/kg	-dry
Benzene	ND			5.1		1	05/10/08	5:55	JC	4429756
Ethylbenzene	ND			5.1		1	05/10/08	5:55	JC	4429756
Toluene	ND			5.1		1	05/10/08	5:55	JC	4429756
m,p-Xylene	ND			5.1		1	05/10/08	5:55	JC	4429756
o-Xylene	ND			5.1		1	05/10/08	5:55	JC	4429756
Xylenes,Total	ND			5.1		1	05/10/08	5:55	JC	4429756
Surr: 1,2-Dichloroethane-d4	80.0		%	64-130		1	05/10/08	5:55	JC	4429756
Surr: 4-Bromofluorobenzene	98.0		%	62-130		1	05/10/08	5:55	JC	4429756
Surr: Toluene-d8	108		%	70-140		1	05/10/08	5:55	JC	4429756

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:52	JC	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C13-Bot-12'			Col	lected:	05/01/2008 2	10:01	SPL Sam	nple I	<b>D:</b> 0805	50489-19
			Sit	e: M	aljamar, NM					
Analyses/Method	Result	QUAL	R	ep.Limit	Dil.	Facto	or Date Anal	yzed	Analyst	Seq. #
DIESEL RANGE ORGANICS					MCL	S	SW8015B	Ur	nits: mg/k	g-dry
Diesel Range Organics (C10-C28)	ND			5.2		1	05/12/08	20:34	NW	4434376
Surr: n-Pentacosane	91.8		%	20-154		1	05/12/08	20:34	NW	4434376
Prep Method Prep Date		Prep Initials	Prep	Factor						
SW3550B 05/10/2008	16:38	QMT	1.00							
GASOLINE RANGE ORGANICS					MCL	S	SW8015B	Ur	nits: mg/k	g-dry
Gasoline Range Organics	ND			0.1		1	05/09/08	17:35	SFE	4428541
Surr: 1,4-Difluorobenzene	98.4		%	63-142		1	05/09/08	17:35	SFE	4428541
Surr: 4-Bromofluorobenzene	102		%	50-159		1	05/09/08	17:35	SFE	4428541
Prep Method Prep Date		Prep Initials	Prep	Factor						
SW5030B 05/08/2008	13:04	SFE	1.00							
ION CHROMATOGRAPHY					MCL	E30	00.0 MOD	Ur	nits: mg/k	g-dry
Chloride	49.3			5.18		1	05/10/08	8 6:30	A_E	4428778
ION CHROMATOGRAPHY - SPL	P				MCL		SW9056	Ur	nits: mg/L	
Chloride	23			2		4	05/13/08	18:08	A_E	4436214
					Leach Method		Leachate Date	2	Leach	Initials
					SW1312		05/09/2008	2	GF	
					MO		D0040	11.		
PERCENT MOISTORE Percent Moisture	3.47			0	IVICL	1	05/08/08	13:22	ESK	4424896
					MOI					
SPLP VOLATILE ORGANICS				F	MCL	1	05/10/08	Ur 10.12		4400044
				5 5		1	05/10/08	10:13		4429941
				5		1	05/10/08	10:13		4429941
				5 5		1	05/10/08	10:13		4429941
				5		1	05/10/08	10.13		4429941
				5		1	05/10/08	10:13		4429941
Surr: 1.2 Disbloroothopo d4	100		0/	62 120		1	05/10/08	10.13		4429941
Surr: 4 Bromofluorohonzono	100		-70 0/	70 420		1	05/10/08	10.13		4429941
Surr: Toluene-d8	90.0		%	70-130		י 1	05/10/08	18.13		4429941
	0 1.0		75			•	00,10,00	0		1120041

Leach Method	Leachate Date	Leach Initials
SW1312	05/09/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C13-Bot-12'			Colle	Collected: 05/01/2008 10:01			SPL Sample ID: 08050489-19			60489-19
			Site	e: Malj	amar, NM					
Analyses/Method	Result	QUAL	Re	p.Limit	Dil.	Factor	Date Analyz	ed	Analyst	Seq. #
VOLATILE ORGANICS BY MET	HOD 8260B				MCL	SV	V8260B	Un	its: ug/kg	-dry
Benzene	ND			5.2		1	05/10/08 6	:24	JC	4429757
Ethylbenzene	ND			5.2		1	05/10/08 6	:24	JC	4429757
Toluene	ND			5.2		1	05/10/08 6	:24	JC	4429757
m,p-Xylene	ND			5.2		1	05/10/08 6	:24	JC	4429757
o-Xylene	ND			5.2		1	05/10/08 6	:24	JC	4429757
Xylenes,Total	ND			5.2		1	05/10/08 6	:24	JC	4429757
Surr: 1,2-Dichloroethane-d4	88.4		%	64-130		1	05/10/08 6	:24	JC	4429757
Surr: 4-Bromofluorobenzene	92.4		%	62-130		1	05/10/08 6	:24	JC	4429757
Surr: Toluene-d8	100		%	70-140		1	05/10/08 6	:24	JC	4429757

Prep Method	Prep Date	Prep Initials	Prep Factor	
SW5030B	05/08/2008 15:54	JC	1.00	

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(740) 000 0004

(713) 660-0901

Client Sample ID: C15-	Bot-8'			Col	lected:	05/01/2008 1	11:17	SPL Samp	le ID:	0805	0489-20
				Sit	e: M	aljamar, NM					
Analyses/Method		Result	QUAL	Re	ep.Limit	Dil.	Fact	or Date Analyz	ed	Analyst	Seq. #
DIESEL RANGE ORGA	NICS					MCL	;	SW8015B	Unit	s: mg/kg	g-dry
Diesel Range Organics (0	C10-C28)	ND			5.2		1	05/12/08 20	:57 N	W	4434377
Surr: n-Pentacosane		89.5		%	20-154		1	05/12/08 20	:57 N	W	4434377
Prep Method	Prep Date		Prep Initials	Prep	Factor	]					
SW3550B	05/10/2008 16:	38	QMT	1.00							
GASOLINE RANGE OF	RGANICS					MCL	ę	SW8015B	Unit	s: mg/kg	j-dry
Gasoline Range Organics	6	ND			0.1		1	05/09/08 18	:05 S	SFE	4428542
Surr: 1,4-Difluorobenze	ene	99.8		%	63-142		1	05/09/08 18	:05 S	SFE	4428542
Surr: 4-Bromofluorober	nzene	98.6		%	50-159		1	05/09/08 18	:05 S	SFE	4428542
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW5030B	05/08/2008 13:	04	SFE	1.00							
ION CHROMATOGRAF	РНҮ					MCL	E3	00.0 MOD	Unit	s: mg/kg	j-dry
Chloride		27.2			5.18		1	05/10/08 6	:46 A	\_E	4428779
ION CHROMATOGRAF	PHY - SPLP					MCL		SW9056	Unit	s: mg/L	
Chloride		1.7			0.5		1	05/13/08 3	:59 A	<u>_</u> Е	4433898
						Leach Method		Leachate Date		l each l	nitials
						SW1312		05/09/2008		GF	maio
PERCENT MOISTURE						MCL		D2216	Unit	s: wt%	
Percent Moisture		3.5			0		1	05/08/08 13	:22 E	SK	4424895
SPLP VOLATILE ORG	ANICS					MCL	ļ	SW8260B	Unit	s: ug/L	
Benzene		ND			5		1	05/10/08 18	:39	LT	4429942
Ethylbenzene		ND			5		1	05/10/08 18	:39	LT	4429942
Toluene		ND			5		1	05/10/08 18	:39	LT	4429942
m,p-Xylene		ND			5		1	05/10/08 18	:39	LT	4429942
o-Xylene		ND			5		1	05/10/08 18	:39	LT	4429942
Xylenes,Total		ND			5		1	05/10/08 18	:39	LT	4429942
Surr: 1,2-Dichloroethar	ne-d4	98.0		%	62-130		1	05/10/08 18	:39	LT	4429942
Surr: 4-Bromofluorober	nzene	90.0		%	70-130		1	05/10/08 18	:39	LT	4429942
Surr: Toluene-d8		96.0		%	74-122		1	05/10/08 18	:39	LT	4429942
								Laashata Data		Lage	nitiolo

Leach Method	Leachate Date	Leach Initials
SW1312	05/09/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C15-Bot-8 Collected: 05/01/2008 11:17 08050489-20 SPL Sample ID: Site: Maljamar, NM Analyses/Method Result QUAL Rep.Limit Dil. Factor Date Analyzed Analyst Seq. # **VOLATILE ORGANICS BY METHOD 8260B** MCL SW8260B Units: ug/kg-dry Benzene ND 5.1 1 05/08/08 17:31 E\_G 4426521 Ethylbenzene ND 5.1 1 05/08/08 17:31 E\_G 4426521 05/08/08 17:31 E\_G Toluene ND 1 4426521 5.1 m,p-Xylene ND 4426521 5.1 1 05/08/08 17:31 E\_G o-Xylene ND 5.1 1 05/08/08 17:31 E\_G 4426521 Xylenes,Total ND 5.1 1 05/08/08 17:31 E\_G 4426521 Surr: 1,2-Dichloroethane-d4 86.7 4426521 % 64-130 1 05/08/08 17:31 E\_G Surr: 4-Bromofluorobenzene 92.7 % 62-130 1 05/08/08 17:31 E\_G 4426521 Surr: Toluene-d8 103 % 70-140 1 05/08/08 17:31 E\_G 4426521

Prep Method	Prep Date	Prep Initials	Prep Factor	
SW5030B	05/08/2008 15:56	E_G	0.99	

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

\* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C19-SW-W			Coll	ected:	05/02/2008	13:56	SPL Sam	ple IC	<b>D:</b> 0805	0489-21
			Site	e: Ma	aljamar, NM					
Analyses/Method	Result	QUAL	Re	p.Limit	Di	I. Factor	Date Analy	/zed	Analyst	Seq. #
DIESEL RANGE ORGANICS					MCL	SV	V8015B	Un	its: mg/kg	J-dry
Diesel Range Organics (C10-C28)	ND			5.6		1	05/12/08 2	1:20	NW	4434378
Surr: n-Pentacosane	112		%	20-154		1	05/12/08 2	21:20	NW	4434378
Prep Method Prep Date		Prep Initials	Prep	Factor						
SW3550B 05/10/2008 16:	38	QMT	1.00							
GASOLINE RANGE ORGANICS					MCL	SV	V8015B	Un	its: mg/kg	j-dry
Gasoline Range Organics	ND			0.11		1	05/09/08 1	9:59	SFE	4428569
Surr: 1,4-Difluorobenzene	100		%	63-142		1	05/09/08 1	9:59	SFE	4428569
Surr: 4-Bromofluorobenzene	99.0		%	50-159		1	05/09/08 1	9:59	SFE	4428569
Prep Method Prep Date		Prep Initials	Prep	Factor						
SW5030B 05/08/2008 13:	09	SFE	1.00							
ION CHROMATOGRAPHY					MCL	E300	.0 MOD	Un	its: mg/kg	g-dry
Chloride	14			5.59		1	05/10/08 1	2:59	A_E	4432607
PERCENT MOISTURE					MCL		D2216	Un	its: wt%	
Percent Moisture	10.6			0		1	05/08/08 1	3:22	ESK	4424893
VOLATILE ORGANICS BY METHOD	8260B				MCL	SV	V8260B	Un	its: ug/kg	-dry
Benzene	ND			5.5		1	05/08/08 1	7:57	E_G	4426522
Ethylbenzene	ND			5.5		1	05/08/08 1	7:57	E_G	4426522
Toluene	ND			5.5		1	05/08/08 1	7:57	E_G	4426522
m,p-Xylene	ND			5.5		1	05/08/08 1	7:57	E_G	4426522
o-Xylene	ND			5.5		1	05/08/08 1	7:57	E_G	4426522
Xylenes,Total	ND			5.5		1	05/08/08 1	7:57	E_G	4426522
Surr: 1,2-Dichloroethane-d4	82.8		%	64-130		1	05/08/08 1	7:57	E_G	4426522
Surr: 4-Bromofluorobenzene	90.9		%	62-130		1	05/08/08 1	7:57	E_G	4426522

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 15:58	E_G	0.99

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Collected: 05/02/2008 10:31 08050489-22 Client Sample ID: C17-SW-N SPL Sample ID: Site: Maljamar, NM Result QUAL Dil. Factor Analyses/Method Rep.Limit Date Analyzed Analyst Seq. # DIESEL RANGE ORGANICS MCL SW8015B Units: mg/kg-dry ND Diesel Range Organics (C10-C28) 1 05/12/08 22:27 NW 4434380 5.1 Surr: n-Pentacosane 94.9 1 05/12/08 22:27 NW 4434380 % 20-154 Prep Method Prep Date Prep Initials Prep Factor SW3550B 05/10/2008 16:38 QMT 1.00 **GASOLINE RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND 05/09/08 20:27 4428570 Gasoline Range Organics 0.1 1 SFE Surr: 1,4-Difluorobenzene 63-142 4428570 101 % 1 05/09/08 20:27 SFE 102 50-159 4428570 Surr: 4-Bromofluorobenzene % 1 05/09/08 20:27 SFE Prep Method Prep Date Prep Initials Prep Factor SW5030B 05/08/2008 13:10 SFE 1.00 ION CHROMATOGRAPHY MCL E300.0 MOD Units: mg/kg-dry Chloride 32.9 5.07 05/10/08 13:15 A\_E 4432608 1 PERCENT MOISTURE MCL D2216 Units: wt% Percent Moisture 1.37 0 1 05/08/08 13:22 ESK 4424892 **VOLATILE ORGANICS BY METHOD 8260B** MCL SW8260B Units: ug/kg-dry Benzene ND 5 1 05/08/08 18:23 E\_G 4426523 ND 5 4426523 Ethylbenzene 1 05/08/08 18:23 E\_G 05/08/08 18:23 E\_G Toluene ND 4426523 5 1 m,p-Xylene ND 5 1 05/08/08 18:23 E\_G 4426523

				_	
o-Xylene	ND	5	1	05/08/08 18:23 E_G	4426523
Xylenes,Total	ND	5	1	05/08/08 18:23 E_G	4426523
Surr: 1,2-Dichloroethane-d4	84.5	% 64-130	1	05/08/08 18:23 E_G	4426523
Surr: 4-Bromofluorobenzene	94.6	% 62-130	1	05/08/08 18:23 E_G	4426523
Surr: Toluene-d8	101	% 70-140	1	05/08/08 18:23 E_G	4426523

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:00	E_G	0.99

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C16-	Bot-8'			Coll	ected:	05/02/2008 9	9:51	SPL Sam	ple II	<b>D:</b> 0805	0489-23
				Site	e: M	aljamar, NM					
Analyses/Method	R	esult	QUAL	Re	p.Limit	Dil.	Facto	or Date Analy	zed	Analyst	Seq. #
DIESEL RANGE ORGA	NICS					MCL	S	SW8015B	Un	its: mg/kg	g-dry
Diesel Range Organics (C	10-C28)	ND			6.4		1	05/12/08 2	2:49	NW	4434381
Surr: n-Pentacosane		127		%	20-154		1	05/12/08 2	2:49	NW	4434381
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW3550B	05/10/2008 16:38		QMT	1.00							
GASOLINE RANGE OR	GANICS					MCL	S	SW8015B	Un	its: mg/kg	g-dry
Gasoline Range Organics		ND			0.13		1	05/09/08 2	1:53	SFE	4428573
Surr: 1,4-Difluorobenze	ne	98.7		%	63-142		1	05/09/08 2	1:53	SFE	4428573
Surr: 4-Bromofluoroben	zene	98.9		%	50-159		1	05/09/08 2	1:53	SFE	4428573
Prep Method	Prep Date		Prep Initials	Prep	Factor	]					
SW5030B	05/08/2008 13:12		SFE	1.00							
ION CHROMATOGRAP	НҮ					MCL	E30	0.0 MOD	Un	its: mg/kg	g-dry
Chloride		94.3			6.4		1	05/10/08 1	3:32	A_E	4432609
ION CHROMATOGRAP	HY - SPLP					MCL		SW9056	Un	its: mg/L	
Chloride		6.78			0.5		1	05/13/08	4:15	A_E	4433899
						Leach Method		Leachate Date		l each	Initials
						SW1312		05/09/2008		GF	
PERCENT MOISTURE						MCL		D2216	Un	its: wt%	
Percent Moisture		21.9			0		1	05/08/08 1	3:22	ESK	4424891
SPLP VOLATILE ORGA	NICS					MCL	S	SW8260B	Un	its: ug/L	
Benzene		ND			5		1	05/10/08 1	9:04	LT	4429943
Ethylbenzene		ND			5		1	05/10/08 1	9:04	LT	4429943
Toluene		ND			5		1	05/10/08 1	9:04	LT	4429943
m,p-Xylene		ND			5		1	05/10/08 1	9:04	LT	4429943
o-Xylene		ND			5		1	05/10/08 1	9:04	LT	4429943
Xylenes,Total		ND			5		1	05/10/08 1	9:04	LT	4429943
Surr: 1,2-Dichloroethan	e-d4	98.0		%	62-130		1	05/10/08 1	9:04	LT	4429943
Surr: 4-Bromofluoroben	zene	88.0		%	70-130		1	05/10/08 1	9:04	LT	4429943
Surr: Toluene-d8		96.0		%	74-122		1	05/10/08 1	9:04	LT	4429943
						Leach Method		Leachate Date		l each l	Initials

Leach Method	Leachate Date	Leach Initials
SW1312	05/09/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C16-Bot-8'			Collected: 05/02/2008 9:51			SPL Sam	ple II	<b>D:</b> 0805	08050489-23	
			Site	e: Malj	amar, NM					
Analyses/Method	Result	QUAL	Re	p.Limit	Dil.	Factor	Date Anal	yzed	Analyst	Seq. #
VOLATILE ORGANICS BY MET	HOD 8260B				MCL	S	V8260B	Un	its: ug/kg	J-dry
Benzene	ND			6.4		1	05/08/08	18:49	E_G	4426524
Ethylbenzene	ND			6.4		1	05/08/08	18:49	E_G	4426524
Toluene	ND			6.4		1	05/08/08	18:49	E_G	4426524
m,p-Xylene	ND			6.4		1	05/08/08	18:49	E_G	4426524
o-Xylene	ND			6.4		1	05/08/08	18:49	E_G	4426524
Xylenes,Total	ND			6.4		1	05/08/08	18:49	E_G	4426524
Surr: 1,2-Dichloroethane-d4	84.5		%	64-130		1	05/08/08	18:49	E_G	4426524
Surr: 4-Bromofluorobenzene	92.6		%	62-130		1	05/08/08	18:49	E_G	4426524
Surr: Toluene-d8	103		%	70-140		1	05/08/08	18:49	E_G	4426524

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:02	E_G	0.99

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- ${\sf E}$  Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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8880 INTERCHANGE DRIVE

HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C16-SW-S			Col	lected	1: 05/02/2	008 9:24	SPL Sam	ple l	<b>D:</b> 0805	0489-24
			Sit	te: I	Maljamar,	NM				
Analyses/Method	Result	QUAL	R	ep.Lim	it	Dil. Facto	r Date Anal	yzed	Analyst	Seq. #
DIESEL RANGE ORGANICS					МС	L S	W8015B	Ur	nits: mg/kg	g-dry
Diesel Range Organics (C10-C28)	ND			5.	2	1	05/12/08	23:11	NW	4434382
Surr: n-Pentacosane	93.9		%	20-15	54	1	05/12/08 2	23:11	NW	4434382
Prep Method Prep Date		Prep Initials	Prep	Factor	:					
SW3550B 05/10/2008 16:	38	QMT	1.00	)						
GASOLINE RANGE ORGANICS					МС	L S	W8015B	Ur	nits: mg/kg	g-dry
Gasoline Range Organics	ND			0.	1	1	05/09/08	22:21	SFE	4428574
Surr: 1,4-Difluorobenzene	100		%	63-14	2	1	05/09/08	22:21	SFE	4428574
Surr: 4-Bromofluorobenzene	98.4		%	50-15	9	1	05/09/08	22:21	SFE	4428574
Prep Method Prep Date		Prep Initials	Prep	Factor	:					
SW5030B 05/08/2008 13:	13	SFE	1.00	)						
ION CHROMATOGRAPHY					МС	L E30	0.0 MOD	Ur	nits: mg/kg	g-dry
Chloride	27.3			5.2	:1	1	05/10/08	13:48	A_E	4432610
PERCENT MOISTURE					МС	L	D2216	Ur	nits: wt%	
Percent Moisture	3.97				0	1	05/08/08	13:22	ESK	4424890
VOLATILE ORGANICS BY METHOD	8260B				MC	L S	W8260B	Ur	nits: ug/kg	-dry
Benzene	ND			5	2	1	05/08/08	19:16	E_G	4426525
Ethylbenzene	ND			5	2	1	05/08/08	19:16	E_G	4426525
Toluene	ND			5	2	1	05/08/08	19:16	E_G	4426525
m,p-Xylene	ND			5	2	1	05/08/08	19:16	E_G	4426525
o-Xylene	ND			5	2	1	05/08/08	19:16	E_G	4426525
Xylenes,Total	ND			5	2	1	05/08/08	19:16	E_G	4426525
Surr: 1,2-Dichloroethane-d4	86.7		%	64-13	60	1	05/08/08	19:16	E_G	4426525
Surr: 4-Bromofluorobenzene	92.7		%	62-13	60	1	05/08/08	19:16	E_G	4426525
Surr: Toluene-d8	103		%	70-14	0	1	05/08/08	19:16	E_G	4426525

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:04	E_G	0.99

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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8880 INTERCHANGE DRIVE

HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C16-SW-N			Col	lected	: 05/02/20	08 9:15	SPL San	nple I	<b>D:</b> 0805	50489-25
			Sit	te: N	/laljamar, l	M				
Analyses/Method	Result	QUAL	R	ep.Lim	it	Dil. Facto	r Date Anal	yzed	Analyst	Seq. #
DIESEL RANGE ORGANICS					MCL	_ s	W8015B	Ur	nits: mg/k	g-dry
Diesel Range Organics (C10-C28)	ND			5.	1	1	05/12/08	23:34	NW	4434383
Surr: n-Pentacosane	89.3		%	20-15	4	1	05/12/08	23:34	NW	4434383
Prep Method Prep Date		Prep Initials	Prep	Factor						
SW3550B 05/10/2008 16:3	38	QMT	1.00	)						
GASOLINE RANGE ORGANICS					MCL	_ S	W8015B	Ur	nits: mg/k	g-dry
Gasoline Range Organics	ND			0.	1	1	05/09/08	22:50	SFE	4428575
Surr: 1,4-Difluorobenzene	99.3		%	63-14	2	1	05/09/08	22:50	SFE	4428575
Surr: 4-Bromofluorobenzene	101		%	50-15	9	1	05/09/08	22:50	SFE	4428575
Prep Method Prep Date		Prep Initials	Prep	Factor						
SW5030B 05/08/2008 13:1	4	SFE	1.00	)						
ION CHROMATOGRAPHY					MCL	_ E30	0.0 MOD	Ur	nits: mg/k	g-dry
Chloride	5.31			5.1	3	1	05/10/08	14:05	A_E	4432611
PERCENT MOISTURE					MCL	_	D2216	Ur	nits: wt%	
Percent Moisture	2.56				0	1	05/08/08	13:22	ESK	4424889
VOLATILE ORGANICS BY METHOD	8260B				MCL	_ s	W8260B	Ur	nits: ug/kg	J-dry
Benzene	ND			5.	2	1	05/08/08	19:42	E_G	4426526
Ethylbenzene	ND			5.	2	1	05/08/08	19:42	E_G	4426526
Toluene	ND			5.	2	1	05/08/08	19:42	E_G	4426526
m,p-Xylene	ND			5.	2	1	05/08/08	19:42	E_G	4426526
o-Xylene	ND			5.	2	1	05/08/08	19:42	E_G	4426526
Xylenes,Total	ND			5.	2	1	05/08/08	19:42	E_G	4426526
Surr: 1,2-Dichloroethane-d4	83.7		%	64-13	0	1	05/08/08	19:42	E_G	4426526
Surr: 4-Bromofluorobenzene	89.6		%	62-13	0	1	05/08/08	19:42	E_G	4426526
Surr: Toluene-d8	104		%	70-14	0	1	05/08/08	19:42	E_G	4426526

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:06	E_G	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(740) 000 0004

(713) 660-0901

Client Sample ID: C18-SW-S			Colle	ected:	05/02/200	8 12:42	SPL Sar	nple I	<b>D:</b> 0805	50489-26
			Site	e: M	aljamar, NI	м				
Analyses/Method	Result	QUAL	Re	p.Limit	: C	Dil. Factor	Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS					MCL	SV	N8015B	Ur	nits: mg/k	g-dry
Diesel Range Organics (C10-C28)	ND			5.3		1	05/12/08	23:56	NW	4434384
Surr: n-Pentacosane	92.2		%	20-154		1	05/12/08	23:56	NW	4434384
Prep Method Prep Date		Prep Initials	Prep	Factor	]					
SW3550B 05/10/2008 16:3	38	QMT	1.00							
GASOLINE RANGE ORGANICS					MCL	SV	N8015B	Ur	nits: mg/k	g-dry
Gasoline Range Organics	ND			0.11		1	05/09/08	23:18	SFE	4428576
Surr: 1,4-Difluorobenzene	98.6		%	63-142		1	05/09/08	23:18	SFE	4428576
Surr: 4-Bromofluorobenzene	98.5		%	50-159	1	1	05/09/08	23:18	SFE	4428576
Prep Method Prep Date		Prep Initials	Prep	Factor	]					
SW5030B 05/08/2008 13:1	15	SFE	1.00							
ION CHROMATOGRAPHY					MCL	E300	.0 MOD	Ur	nits: mg/k	g-dry
Chloride	46.4			5.26		1	05/10/08	14:21	A_E	4432612
PERCENT MOISTURE					MCL		D2216	Ur	nits: wt%	
Percent Moisture	5.02			0		1	05/08/08	13:22	ESK	4424888
VOLATILE ORGANICS BY METHOD	8260B				MCL	SV	N8260B	Ur	nits: ug/kg	g-dry
Benzene	ND			5.2		1	05/08/08	20:08	E_G	4426527
Ethylbenzene	ND			5.2		1	05/08/08	20:08	E_G	4426527
Toluene	ND			5.2		1	05/08/08	20:08	E_G	4426527
m,p-Xylene	ND			5.2		1	05/08/08	20:08	E_G	4426527
o-Xylene	ND			5.2		1	05/08/08	20:08	E_G	4426527
Xylenes,Total	ND			5.2		1	05/08/08	20:08	E_G	4426527
Surr: 1,2-Dichloroethane-d4	86.7		%	64-130	)	1	05/08/08	20:08	E_G	4426527
Surr: 4-Bromofluorobenzene	90.7		%	62-130	)	1	05/08/08	20:08	E_G	4426527
Surr: Toluene-d8	103		%	70-140		1	05/08/08	20:08	E_G	4426527

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:08	E_G	0.99

**Qualifiers:** 

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C18	-SW-N			Col	lected	<b>d:</b> 05/0	2/2008	12:35	SPL Sam	ple I	<b>D:</b> 0805	0489-27
				Sit	te: I	Maljan	nar, NM					
Analyses/Method		Result	QUAL	R	ep.Lim	nit	Di	I. Factor	Date Analy	/zed	Analyst	Seq. #
DIESEL RANGE ORG	ANICS						MCL	SV	V8015B	Ur	nits: mg/kg	g-dry
Diesel Range Organics (	C10-C28)	ND			5	5.5		1	05/13/08	0:19	NW	4434385
Surr: n-Pentacosane		111		%	20-15	54		1	05/13/08	0:19	NW	4434385
Prep Method	Prep Date		Prep Initials	Prep	Facto	<u>or</u>						
SW3550B	05/10/2008 16:3	8	QMT	1.00	)							
GASOLINE RANGE O	RGANICS						MCL	SV	V8015B	Ur	nits: mg/kg	g-dry
Gasoline Range Organic	S	ND			0.1	11		1	05/10/08	0:43	SFE	4428579
Surr: 1,4-Difluorobenz	ene	99.5		%	63-14	42		1	05/10/08	0:43	SFE	4428579
Surr: 4-Bromofluorobe	enzene	97.2		%	50-15	59		1	05/10/08	0:43	SFE	4428579
Prep Method	Prep Date		Prep Initials	Prep	Facto	or						
SW5030B	05/08/2008 13:1	5	SFE	1.00	)							
ION CHROMATOGRA	PHY						MCL	E300	.0 MOD	Ur	nits: mg/kg	g-dry
Chloride		27.3			5	5.5		1	05/10/08 1	4:38	A_E	4432613
PERCENT MOISTURE							MCL		D2216	Ur	nits: wt%	
Percent Moisture		9.06				0		1	05/08/08 1	3:22	ESK	4424887
VOLATILE ORGANICS	BY METHOD	8260B	1				MCL	SV	V8260B	Ur	nits: ug/kg	-dry
Benzene		ND			5	5.5		1	05/08/08 2	20:34	E_G	4426528
Ethylbenzene		ND			5	5.5		1	05/08/08 2	20:34	E_G	4426528
Toluene		ND			5	i.5		1	05/08/08 2	20:34	E_G	4426528
m,p-Xylene		ND			5	5.5		1	05/08/08 2	0:34	E_G	4426528
o-Xylene		ND			5	5.5		1	05/08/08 2	0:34	E_G	4426528
Xylenes,Total		ND			5	i.5		1	05/08/08 2	20:34	E_G	4426528
Surr: 1,2-Dichloroetha	ne-d4	86.2		%	64-13	30		1	05/08/08 2	20:34	E_G	4426528
Surr: 4-Bromofluorobe	nzene	92.2		%	62-13	30		1	05/08/08 2	0:34	E_G	4426528
Surr: Toluene-d8		102		%	70-14	40		1	05/08/08 2	20:34	E_G	4426528

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:10	E_G	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Collected: 05/02/2008 10:42 08050489-28 Client Sample ID: C17-Bot-6 SPL Sample ID: Site: Maljamar, NM Result QUAL Analyses/Method Rep.Limit Dil. Factor Date Analyzed Analyst Seq. # **DIESEL RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND 05/13/08 2:33 NW Diesel Range Organics (C10-C28) 1 4433766 5.4 Surr: n-Pentacosane 76.7 1 05/13/08 2:33 NW 4433766 % 20-154 Prep Method Prep Date Prep Initials Prep Factor 05/10/2008 17:52 QMT SW3550B 1.00 **GASOLINE RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND 05/10/08 1:12 SFE 4428580 Gasoline Range Organics 0.11 1 63-142 4428580 Surr: 1,4-Difluorobenzene 98.8 % 1 05/10/08 1:12 SFE 50-159 4428580 Surr: 4-Bromofluorobenzene 101 % 1 05/10/08 1:12 SFE Prep Method Prep Date Prep Initials Prep Factor SW5030B 05/08/2008 13:16 SFE 1.00 ION CHROMATOGRAPHY MCL E300.0 MOD Units: mg/kg-dry Chloride 149 5.38 05/10/08 14:54 A\_E 4432614 1 **ION CHROMATOGRAPHY - SPLP** MCL SW9056 Units: mg/L Chloride 45.3 2 4 05/13/08 17:19 A\_E 4436211 Leach Method Leachate Date Leach Initials SW1312 05/09/2008 GF PERCENT MOISTURE MCL D2216 Units: wt% 0 Percent Moisture 7.14 1 05/08/08 13:22 ESK 4424886 SPLP VOLATILE ORGANICS MCL SW8260B Units: ug/L ND 4429944 5 Benzene 1 05/10/08 19:30 LT 5 4429944 Ethylbenzene ND 1 05/10/08 19:30 LT Toluene ND 5 1 05/10/08 19:30 LT 4429944 m,p-Xylene ND 5 1 05/10/08 19:30 LT 4429944 4429944 o-Xylene ND 5 1 05/10/08 19:30 LT ND 5 4429944 Xylenes,Total 1 05/10/08 19:30 I T Surr: 1,2-Dichloroethane-d4 98.0 % 62-130 1 05/10/08 19:30 LT 4429944 Surr: 4-Bromofluorobenzene 90.0 % 70-130 1 05/10/08 19:30 LT 4429944 Surr: Toluene-d8 96.0 74-122 1 05/10/08 19:30 LT 4429944 %

Leach Method	Leachate Date	Leach Initials
SW1312	05/09/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C17-Bot-6'			Collected: 05/02/2008 10:42			SPL Sam	ple ID	): 0805	08050489-28	
			Site	e: Malj	amar, NM					
Analyses/Method	Result	QUAL	Re	ep.Limit	Dil. Facto	or Date Analy	zed	Analyst	Seq. #	
VOLATILE ORGANICS BY MET	HOD 8260B				MCL S	W8260B	Uni	ts: ug/kg	J-dry	
Benzene	ND			5.4	1	05/08/08 2	1:00	E_G	4426606	
Ethylbenzene	ND			5.4	1	05/08/08 2	1:00	E_G	4426606	
Toluene	ND			5.4	1	05/08/08 2	1:00	E_G	4426606	
m,p-Xylene	ND			5.4	1	05/08/08 2	1:00	E_G	4426606	
o-Xylene	ND			5.4	1	05/08/08 2	1:00	E_G	4426606	
Xylenes,Total	ND			5.4	1	05/08/08 2	1:00	E_G	4426606	
Surr: 1,2-Dichloroethane-d4	86.2		%	64-130	1	05/08/08 2	1:00	E_G	4426606	
Surr: 4-Bromofluorobenzene	92.2		%	62-130	1	05/08/08 2	1:00	E_G	4426606	
Surr: Toluene-d8	104		%	70-140	1	05/08/08 2	1:00	E_G	4426606	

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:12	E_G	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- ${\sf E}$  Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C19-B	ot-5'			Coll	lected:	05/02/2008	13:4′	1 SPL Sam	ple I	<b>D:</b> 0805	0489-29
				Sit	e: M	aljamar, NM					
Analyses/Method	R	lesult	QUAL	Re	ep.Limit	Dil	Fact	tor Date Analy	zed	Analyst	Seq. #
DIESEL RANGE ORGAN	lics					MCL		SW8015B	Ur	nits: mg/kg	j-dry
Diesel Range Organics (C1	0-C28)	ND			5.2		1	05/13/08	2:55	NW	4433767
Surr: n-Pentacosane		72.7		%	20-154		1	05/13/08	2:55	NW	4433767
Prep Method F	Prep Date		Prep Initials	Prep	Factor						
SW3550B 0	5/10/2008 17:52		QMT	1.00		]					
GASOLINE RANGE OR	SANICS					MCL		SW8015B	Ur	nits: mg/kg	J-dry
Gasoline Range Organics		ND			0.1		1	05/10/08	1:40	SFE	4428581
Surr: 1,4-Difluorobenzen	e	100		%	63-142		1	05/10/08	1:40	SFE	4428581
Surr: 4-Bromofluorobenz	ene	99.0		%	50-159		1	05/10/08	1:40	SFE	4428581
Prep Method F	Prep Date		Prep Initials	Prep	Factor	]					
SW5030B 0	5/08/2008 13:17		SFE	1.00							
ION CHROMATOGRAPH	IY					MCL	E3	00.0 MOD	Ur	nits: mg/kg	j-dry
Chloride		ND			5.18		1	05/12/08 2	1:08	A_E	4433823
ION CHROMATOGRAPH	IY - SPLP					MCL		SW9056	Ur	nits: mg/L	
Chloride		8.82			0.5		1	05/13/08	4:48	A_E	4433900
						Leach Method		Leachate Date		l each l	nitials
						SW1312		05/09/2008		GF	
PERCENT MOISTURE						MCL		D2216	Ur	nits: wt%	
Percent Moisture		3.44			0		1	05/08/08 1	3:22	ESK	4424885
SPLP VOLATILE ORGA	NICS					MCL		SW8260B	Ur	nits: ug/L	
Benzene		ND			5		1	05/10/08 1	9:56	LT	4429945
Ethylbenzene		ND			5		1	05/10/08 1	9:56	LT	4429945
Toluene		ND			5		1	05/10/08 1	9:56	LT	4429945
m,p-Xylene		ND			5		1	05/10/08 1	9:56	LT	4429945
o-Xylene		ND			5		1	05/10/08 1	9:56	LT	4429945
Xylenes,Total		ND			5		1	05/10/08 1	9:56	LT	4429945
Surr: 1,2-Dichloroethane	-d4	100		%	62-130		1	05/10/08 1	9:56	LT	4429945
Surr: 4-Bromofluorobenz	ene	90.0		%	70-130		1	05/10/08 1	9:56	LT	4429945
Surr: Toluene-d8		94.0		%	74-122		1	05/10/08 1	9:56	LT	4429945

Leach Method	Leachate Date	Leach Initials		
SW1312	05/09/2008	GF		

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C19-Bot-5'			Collected: 05/02/2008 13:41			SPL Sample ID: 08050489-2				
			Site:	Malj	amar, NM					
Analyses/Method	Result	QUAL	Rep	.Limit	Dil	Factor	Date Anal	yzed	Analyst	Seq. #
VOLATILE ORGANICS BY MET	THOD 8260B				MCL	SV	V8260B	Ur	nits: ug/kg	g-dry
Benzene	ND			5.2		1	05/08/08	21:26	E_G	4426530
Ethylbenzene	ND			5.2		1	05/08/08	21:26	E_G	4426530
Toluene	ND			5.2		1	05/08/08	21:26	E_G	4426530
m,p-Xylene	ND			5.2		1	05/08/08	21:26	E_G	4426530
o-Xylene	ND			5.2		1	05/08/08	21:26	E_G	4426530
Xylenes,Total	ND			5.2		1	05/08/08	21:26	E_G	4426530
Surr: 1,2-Dichloroethane-d4	87.1		% 6	4-130		1	05/08/08	21:26	E_G	4426530
Surr: 4-Bromofluorobenzene	91.1		% 6	2-130		1	05/08/08	21:26	E_G	4426530
Surr: Toluene-d8	101		% 7	0-140		1	05/08/08	21:26	E_G	4426530

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:14	E_G	1.01

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C19-	-SW-5			Col	lected	l: 05	5/02/2008 1	3:33	SPL San	nple I	<b>D:</b> 0805	60489-30
				Sit	e: I	Malja	amar, NM					
Analyses/Method	Re	sult	QUAL	R	ep.Lim	it	Dil.	Factor	Date Ana	yzed	Analyst	Seq. #
DIESEL RANGE ORGA	ANICS						MCL	SV	V8015B	Ur	nits: mg/kg	g-dry
Diesel Range Organics (	C10-C28)	ND			5.	2		1	05/13/08	3 3:18	NW	4433768
Surr: n-Pentacosane	6	9.6		%	20-15	4		1	05/13/08	3 3:18	NW	4433768
Prep Method	Prep Date		Prep Initials	Prep	Factor	<u>.</u>						
SW3550B	05/10/2008 17:52		QMT	1.00	)							
GASOLINE RANGE OF	RGANICS						MCL	SV	V8015B	Ur	nits: mg/kg	g-dry
Gasoline Range Organics	S	ND			0.	1		1	05/10/08	3 2:09	SFE	4428582
Surr: 1,4-Difluorobenze	ene g	8.2		%	63-14	2		1	05/10/08	3 2:09	SFE	4428582
Surr: 4-Bromofluorober	nzene 9	8.0		%	50-15	9		1	05/10/08	3 2:09	SFE	4428582
Prep Method	Prep Date		Prep Initials	Prep	Factor							
SW5030B	05/08/2008 13:18		SFE	1.00	)							
ION CHROMATOGRAF	РНҮ						MCL	E300	.0 MOD	Ur	nits: mg/kg	g-dry
Chloride	3	6.4			5.	2		1	05/12/08	21:24	A_E	4433824
PERCENT MOISTURE							MCL		D2216	Ur	nits: wt%	
Percent Moisture	3	.85				0		1	05/08/08	13:22	ESK	4424884
VOLATILE ORGANICS	BY METHOD 826	60B					MCL	SV	V8260B	Ur	nits: ug/kg	J-dry
Benzene		ND			5.	2		1	05/08/08	21:52	E_G	4426531
Ethylbenzene		ND			5.	2		1	05/08/08	21:52	E_G	4426531
Toluene		ND			5.	2		1	05/08/08	21:52	E_G	4426531
m,p-Xylene		ND			5.	2		1	05/08/08	21:52	E_G	4426531
o-Xylene		ND			5.	2		1	05/08/08	21:52	E_G	4426531
Xylenes,Total		ND			5.	2		1	05/08/08	21:52	E_G	4426531
Surr: 1,2-Dichloroethar	ne-d4 8	8.0		%	64-13	0		1	05/08/08	21:52	E_G	4426531
Surr: 4-Bromofluorober	nzene 8	8.0		%	62-13	0		1	05/08/08	21:52	E_G	4426531
Surr: Toluene-d8		100		%	70-14	0		1	05/08/08	21:52	E_G	4426531
	1		T									

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:16	E_G	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

08050489-31 Client Sample ID: C11-Bot-9 Collected: 04/29/2008 15:28 SPL Sample ID: Site: Maljamar, NM Result QUAL Analyses/Method Rep.Limit Dil. Factor Date Analyzed Analyst Seq. # **DIESEL RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND 05/13/08 3:40 Diesel Range Organics (C10-C28) 1 NW 4433769 5.2 Surr: n-Pentacosane 73.3 1 05/13/08 3:40 4433769 % 20-154 NW Prep Method Prep Date Prep Initials Prep Factor 05/10/2008 17:52 QMT SW3550B 1.00 **GASOLINE RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND 05/10/08 2:37 4428583 Gasoline Range Organics 0.1 1 SFE 63-142 4428583 Surr: 1,4-Difluorobenzene 98.4 % 1 05/10/08 2:37 SFE 97.5 4428583 Surr: 4-Bromofluorobenzene % 50-159 1 05/10/08 2:37 SFE Prep Method Prep Date Prep Initials Prep Factor SW5030B 05/08/2008 13:19 SFE 1.00 ION CHROMATOGRAPHY MCL E300.0 MOD Units: mg/kg-dry Chloride 242 21 4 05/12/08 21:40 A\_E 4433825 **ION CHROMATOGRAPHY - SPLP** MCL SW9056 Units: mg/L Chloride 60.9 2 4 05/13/08 18:24 A\_E 4436215 Leach Method Leachate Date Leach Initials SW1312 05/09/2008 GF PERCENT MOISTURE MCL D2216 Units: wt% 0 Percent Moisture 4.6 1 05/08/08 13:22 ESK 4424882 SPLP VOLATILE ORGANICS MCL SW8260B Units: ug/L ND 5 05/10/08 20:22 4429946 Benzene 1 LT 5 4429946 Ethylbenzene ND 1 05/10/08 20:22 LT Toluene ND 5 1 05/10/08 20:22 LT 4429946 m,p-Xylene ND 5 1 05/10/08 20:22 LT 4429946 4429946 o-Xylene ND 5 1 05/10/08 20:22 LT 05/10/08 20:22 ND 5 4429946 Xylenes,Total 1 I T Surr: 1,2-Dichloroethane-d4 100 % 62-130 1 05/10/08 20:22 LT 4429946 Surr: 4-Bromofluorobenzene 90.0 % 70-130 1 05/10/08 20:22 LT 4429946 Surr: Toluene-d8 96.0 74-122 1 05/10/08 20:22 4429946 % I T

Leach Method	Leachate Date	Leach Initials
SW1312	05/09/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C11-Bot-9 Collected: 04/29/2008 15:28 08050489-31 SPL Sample ID: Site: Maljamar, NM Analyses/Method Result QUAL Rep.Limit Dil. Factor Date Analyzed Analyst Seq. # **VOLATILE ORGANICS BY METHOD 8260B** MCL SW8260B Units: ug/kg-dry Benzene ND 5.2 1 05/08/08 22:18 E\_G 4426532 Ethylbenzene ND 5.2 1 05/08/08 22:18 E\_G 4426532 05/08/08 22:18 E\_G 4426532 Toluene ND 5.2 1 m,p-Xylene ND 4426532 5.2 1 05/08/08 22:18 E\_G o-Xylene ND 5.2 1 05/08/08 22:18 E\_G 4426532 Xylenes,Total ND 5.2 1 05/08/08 22:18 E\_G 4426532 Surr: 1,2-Dichloroethane-d4 05/08/08 22:18 E\_G 4426532 84.5 % 64-130 1 Surr: 4-Bromofluorobenzene 90.5 % 62-130 1 05/08/08 22:18 E\_G 4426532 Surr: Toluene-d8 103 % 70-140 1 05/08/08 22:18 E\_G 4426532

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:18	E_G	0.99

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

\* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

08050489-32 Client Sample ID: C10-Bot-8 Collected: 04/29/2008 14:20 SPL Sample ID: Site: Maljamar, NM Result QUAL Analyses/Method Rep.Limit Dil. Factor Date Analyzed Analyst Seq. # **DIESEL RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND Diesel Range Organics (C10-C28) 1 05/13/08 5:10 NW 4433773 5.2 Surr: n-Pentacosane 82.3 1 05/13/08 5:10 NW 4433773 % 20-154 Prep Method Prep Date Prep Initials Prep Factor 05/10/2008 17:52 QMT SW3550B 1.00 **GASOLINE RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND 05/10/08 3:06 SFE 4428584 Gasoline Range Organics 0.1 1 63-142 4428584 Surr: 1,4-Difluorobenzene 98.9 % 1 05/10/08 3:06 SFE 4428584 Surr: 4-Bromofluorobenzene 100 % 50-159 1 05/10/08 3:06 SFE Prep Method Prep Date Prep Initials Prep Factor SW5030B 05/08/2008 16:52 SFE 1.00 ION CHROMATOGRAPHY MCL E300.0 MOD Units: mg/kg-dry Chloride 198 20.9 4 05/12/08 21:57 A\_E 4433826 **ION CHROMATOGRAPHY - SPLP** MCL SW9056 Units: mg/L Chloride 63.6 2 4 05/13/08 18:41 A\_E 4436216 Leach Method Leachate Date Leach Initials SW1312 05/09/2008 GF PERCENT MOISTURE MCL D2216 Units: wt% 0 Percent Moisture 4.5 1 05/08/08 13:22 ESK 4424881 SPLP VOLATILE ORGANICS MCL SW8260B Units: ug/L ND 4429947 5 05/10/08 20:48 Benzene 1 LT 5 4429947 Ethylbenzene ND 1 05/10/08 20:48 LT Toluene ND 5 1 05/10/08 20:48 LT 4429947 m,p-Xylene ND 5 1 05/10/08 20:48 LT 4429947 4429947 o-Xylene ND 5 1 05/10/08 20:48 LT ND 5 4429947 Xylenes,Total 1 05/10/08 20:48 I T Surr: 1,2-Dichloroethane-d4 102 % 62-130 1 05/10/08 20:48 LT 4429947 Surr: 4-Bromofluorobenzene 92.0 % 70-130 1 05/10/08 20:48 LT 4429947 Surr: Toluene-d8 94.0 74-122 1 05/10/08 20:48 LT 4429947 %

Leach Method	Leachate Date	Leach Initials
SW1312	05/09/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- ${\sf E}$  Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C10-Bot-8'			Collected: 04/29/2008 14:20				SPL Sample ID: 08050489-32			50489-32
			Site:	Malj	amar, NM					
Analyses/Method	Result	QUAL	Rep.l	_imit	Dil	. Factor	Date Ana	lyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B				MCL	SV	V8260B	Ur	nits: ug/kg	g-dry	
Benzene	ND			5.3		1	05/09/08	20:32	E_G	4429068
Ethylbenzene	ND			5.3		1	05/09/08	20:32	E_G	4429068
Toluene	ND			5.3		1	05/09/08	20:32	E_G	4429068
m,p-Xylene	ND			5.3		1	05/09/08	20:32	E_G	4429068
o-Xylene	ND			5.3		1	05/09/08	20:32	E_G	4429068
Xylenes,Total	ND			5.3		1	05/09/08	20:32	E_G	4429068
Surr: 1,2-Dichloroethane-d4	89.1		% 64	-130		1	05/09/08	20:32	E_G	4429068
Surr: 4-Bromofluorobenzene	93.1		% 62	-130		1	05/09/08	20:32	E_G	4429068
Surr: Toluene-d8	103		% 70	-140		1	05/09/08	20:32	E_G	4429068

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:24	E_G	1.01

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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8880 INTERCHANGE DRIVE

HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C11	1-SW-S			Col	lected	: 04/29/	2008	15:23	SPL San	nple I	<b>D:</b> 0805	0489-33
				Sit	te: N	<i>l</i> laljama	r, NM					
Analyses/Method		Result	QUAL	R	ep.Lim	it	Dil	. Factor	Date Ana	yzed	Analyst	Seq. #
DIESEL RANGE ORG	ANICS					М	CL	SV	V8015B	Ur	nits: mg/kg	g-dry
Diesel Range Organics	(C10-C28)	ND			5.	2		1	05/13/08	3 5:32	NW	4433777
Surr: n-Pentacosane		96.9		%	20-15	4		1	05/13/08	3 5:32	NW	4433777
Prep Method	Prep Date		Prep Initials	Prep	Factor	:						
SW3550B	05/10/2008 17:5	2	QMT	1.00	)							
GASOLINE RANGE O	RGANICS					М	CL	SV	V8015B	Ur	nits: mg/kg	g-dry
Gasoline Range Organic	cs	ND			0.	1		1	05/10/08	3 3:34	SFE	4428585
Surr: 1,4-Difluorobenz	zene	100		%	63-14	2		1	05/10/08	3 3:34	SFE	4428585
Surr: 4-Bromofluorobe	enzene	98.9		%	50-15	9		1	05/10/08	3 3:34	SFE	4428585
Prep Method	Prep Date		Prep Initials	Prep	Factor							
SW5030B	05/08/2008 13:2	0	SFE	1.00	)							
ION CHROMATOGRA	PHY					М	CL	E300	.0 MOD	Ur	nits: mg/kg	g-dry
Chloride		163			20.	9		4	05/12/08	22:13	A_E	4433827
PERCENT MOISTURE	<b>_</b>					М	CL		D2216	Ur	nits: wt%	
Percent Moisture		4.48				0		1	05/08/08	13:22	ESK	4424880
VOLATILE ORGANIC	S BY METHOD	8260B				М	CL	SV	V8260B	Ur	nits: ug/kg	J-dry
Benzene		ND			5.	3		1	05/09/08	20:58	E_G	4429070
Ethylbenzene		ND			5.	3		1	05/09/08	20:58	E_G	4429070
Toluene		ND			5.	3		1	05/09/08	20:58	E_G	4429070
m,p-Xylene		ND			5.	3		1	05/09/08	20:58	E_G	4429070
o-Xylene		ND			5.	3		1	05/09/08	20:58	E_G	4429070
Xylenes,Total		ND			5.	3		1	05/09/08	20:58	E_G	4429070
Surr: 1,2-Dichloroetha	ane-d4	85.5		%	64-13	0		1	05/09/08	20:58	E_G	4429070
Surr: 4-Bromofluorobe	enzene	89.5		%	62-13	0		1	05/09/08	20:58	E_G	4429070
Surr: Toluene-d8		103		%	70-14	0		1	05/09/08	20:58	E_G	4429070

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:26	E_G	1.01

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C9-S	SW-S			Col	lected	<b>1:</b> 04/2	9/2008	8 13:00	SPL Sar	nple I	<b>D:</b> 0805	50489-34
				Sit	e: N	Maljam	nar, NI	N				
Analyses/Method	R	esult	QUAL	R	ep.Lim	it	۵	Dil. Factor	Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORGA	NICS						MCL	SV	V8015B	Ur	nits: mg/k	g-dry
Diesel Range Organics (0	C10-C28)	ND			5.	.3		1	05/13/0	8 5:55	NW	4433778
Surr: n-Pentacosane		81.7		%	20-15	54		1	05/13/0	8 5:55	NW	4433778
Prep Method	Prep Date		Prep Initials	Prep	Factor	r						
SW3550B	05/10/2008 17:52		QMT	1.00								
GASOLINE RANGE OF	RGANICS						MCL	SV	V8015B	Ur	nits: mg/k	g-dry
Gasoline Range Organics	3	ND			0.1	1		1	05/10/0	8 4:02	SFE	4428586
Surr: 1,4-Difluorobenze	ene	100		%	63-14	2		1	05/10/0	8 4:02	SFE	4428586
Surr: 4-Bromofluorober	nzene	98.7		%	50-15	59		1	05/10/0	8 4:02	SFE	4428586
Prep Method	Prep Date		Prep Initials	Prep	Factor	r						
SW5030B	05/08/2008 13:21		SFE	1.00								
ION CHROMATOGRAF	РНΥ						MCL	E300	.0 MOD	Ur	nits: mg/k	g-dry
Chloride		150			21.	.1		4	05/12/08	22:30	A_E	4433828
PERCENT MOISTURE							MCL		D2216	Ur	nits: wt%	
Percent Moisture		5.28				0		1	05/08/08	13:22	ESK	4424879
VOLATILE ORGANICS	BY METHOD 82	260B					MCL	SV	V8260B	Ur	nits: ug/kg	J-dry
Benzene		ND			5.	.3		1	05/09/08	21:24	E_G	4429072
Ethylbenzene		ND			5.	.3		1	05/09/08	21:24	E_G	4429072
Toluene		ND			5.	.3		1	05/09/08	21:24	E_G	4429072
m,p-Xylene		ND			5.	.3		1	05/09/08	21:24	E_G	4429072
o-Xylene		ND			5.	.3		1	05/09/08	21:24	E_G	4429072
Xylenes,Total		ND			5.	.3		1	05/09/08	21:24	E_G	4429072
Surr: 1,2-Dichloroethar	ne-d4	87.8		%	64-13	80		1	05/09/08	21:24	E_G	4429072
Surr: 4-Bromofluorober	nzene	91.8		%	62-13	80		1	05/09/08	21:24	E_G	4429072
Surr: Toluene-d8		102		%	70-14	10		1	05/09/08	21:24	E_G	4429072
						_						

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:28	E_G	1.00

**Qualifiers:** 

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

08050489-35 Client Sample ID: C9-SW-N Collected: 04/29/2008 13:09 SPL Sample ID: Site: Maljamar, NM Result QUAL Analyses/Method Rep.Limit Dil. Factor Date Analyzed Analyst Seq. # **DIESEL RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND Diesel Range Organics (C10-C28) 1 05/13/08 6:17 NW 4433779 5.3 Surr: n-Pentacosane 102 1 05/13/08 6:17 NW 4433779 % 20-154 Prep Method Prep Date Prep Initials Prep Factor 05/10/2008 17:52 QMT SW3550B 1.00 **GASOLINE RANGE ORGANICS** MCL SW8015B Units: mg/kg-dry ND 05/10/08 4:31 SFE 4428587 Gasoline Range Organics 0.11 1 63-142 05/10/08 4:31 4428587 Surr: 1,4-Difluorobenzene 99.3 % 1 SFE 50-159 4428587 Surr: 4-Bromofluorobenzene 98.0 % 1 05/10/08 4:31 SFE Prep Method Prep Date Prep Initials Prep Factor SW5030B 05/08/2008 13:22 SFE 1.00 ION CHROMATOGRAPHY MCL E300.0 MOD Units: mg/kg-dry Chloride 128 21.1 4 05/12/08 22:46 A\_E 4433829 PERCENT MOISTURE MCL D2216 Units: wt% Percent Moisture 5.34 0 1 05/08/08 13:22 ESK 4424878 **VOLATILE ORGANICS BY METHOD 8260B** MCL SW8260B Units: ug/kg-dry Benzene ND 5.3 1 05/09/08 21:50 E\_G 4429074 4429074 Ethylbenzene ND 5.3 1 05/09/08 21:50 E\_G Toluene 4429074 ND 5.3 1 05/09/08 21:50 E\_G 4429074 m,p-Xylene ND 5.3 1 05/09/08 21:50 E\_G o-Xylene ND 5.3 1 05/09/08 21:50 E\_G 4429074 Xylenes,Total ND 5.3 1 05/09/08 21:50 E\_G 4429074 Surr: 1,2-Dichloroethane-d4 % 64-130 1 05/09/08 21:50 E\_G 4429074 85.8 Surr: 4-Bromofluorobenzene 89.8 % 62-130 1 05/09/08 21:50 E\_G 4429074 Surr: Toluene-d8 70-140 05/09/08 21:50 E\_G 4429074 104 % 1

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:30	E_G	1.00

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C9-Bot-8'				Collected:		04/29/2008 13:13		SPL Sam	ple l	I <b>D:</b> 0805	0489-36
				Sit	e: Ma	aljamar, NM					
Analyses/Method		Result	QUAL	Re	ep.Limit	Dil.	Facto	or Date Analy	yzed	Analyst	Seq. #
DIESEL RANGE ORGA	NICS					MCL	:	SW8015B	Uı	nits: mg/kg	g-dry
Diesel Range Organics (C	C10-C28)	ND			5.2		1	05/13/08	6:40	NW	4433780
Surr: n-Pentacosane		97.7		%	20-154		1	05/13/08	6:40	NW	4433780
Prep Method	Prep Date		Prep Initials	Prep	Factor	]					
SW3550B	05/10/2008 17:52	2	QMT	1.00							
GASOLINE RANGE OR	GANICS					MCL	ę	SW8015B	Uı	nits: mg/kg	g-dry
Gasoline Range Organics		ND			0.1		1	05/10/08	4:59	SFE	4428588
Surr: 1,4-Difluorobenze	ne	100		%	63-142		1	05/10/08	4:59	SFE	4428588
Surr: 4-Bromofluoroben	izene	98.8		%	50-159		1	05/10/08	4:59	SFE	4428588
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW5030B	05/08/2008 13:22	2	SFE	1.00							
ION CHROMATOGRAP	ΉY					MCL	E3(	00.0 MOD	Uı	nits: mg/kg	g-dry
Chloride		198			21		4	05/12/08 2	23:03	A_E	4433830
ION CHROMATOGRAP	HY - SPLP					MCL		SW9056	Uı	nits: mg/L	
Chloride		59.3			2		4	05/13/08 2	18:57	A_E	4436217
						Leach Method		Leachate Date		Leach I	nitials
						SW1312		05/09/2008		GF	
PERCENT MOISTURE						MCL		D2216	Ur	nits: wt%	
Percent Moisture		4.69			0		1	05/08/08	13:22	ESK	4424877
SPLP VOLATILE ORGA	ANICS					MCL	;	SW8260B	Uı	nits: ug/L	
Benzene		ND			5		1	05/10/08 2	21:14	LT	4429948
Ethylbenzene		ND			5		1	05/10/08 2	21:14	LT	4429948
Toluene		ND			5		1	05/10/08 2	21:14	LT	4429948
m,p-Xylene		ND			5		1	05/10/08 2	21:14	LT	4429948
o-Xylene		ND			5		1	05/10/08 2	21:14	LT	4429948
Xylenes,Total		ND			5		1	05/10/08 2	21:14	LT	4429948
Surr: 1,2-Dichloroethan	e-d4	100		%	62-130		1	05/10/08 2	21:14	LT	4429948
Surr: 4-Bromofluoroben	izene	90.0		%	70-130		1	05/10/08 2	21:14	LT	4429948
Surr: Toluene-d8		96.0		%	74-122		1	05/10/08 2	21:14	LT	4429948
						Leest Marth 1				1	- 10 - 1-

Leach Method	Leachate Date	Leach Initials
SW1312	05/09/2008	GF

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C9-Bot-8'			Collected: 04/29/2008 13:13				<b>SPL Sample ID:</b> 08050489-36			
			Site:	Malj	amar, NM					
Analyses/Method	Result	QUAL	Rep.	Limit	Dil	. Factor	Date Anal	yzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B					MCL	SV	V8260B	Ur	its: ug/kg	-dry
Benzene	ND			5.2		1	05/09/08	22:16	E_G	4429076
Ethylbenzene	ND			5.2		1	05/09/08	22:16	E_G	4429076
Toluene	ND			5.2		1	05/09/08	22:16	E_G	4429076
m,p-Xylene	ND			5.2		1	05/09/08	22:16	E_G	4429076
o-Xylene	ND			5.2		1	05/09/08	22:16	E_G	4429076
Xylenes,Total	ND			5.2		1	05/09/08	22:16	E_G	4429076
Surr: 1,2-Dichloroethane-d4	84.7		% 64	1-130		1	05/09/08	22:16	E_G	4429076
Surr: 4-Bromofluorobenzene	90.7		% 62	2-130		1	05/09/08	22:16	E_G	4429076
Surr: Toluene-d8	103		% 70	)-140		1	05/09/08	22:16	E_G	4429076

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:32	E_G	0.99

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- ${\sf E}$  Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL) D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: C10-	-SW-S			Col	lected	<b>:</b> 04/2	29/2008 1	4:01	SPL Sar	nple I	<b>D:</b> 0805	0489-37
				Sit	te: N	Maljar	mar, NM					
Analyses/Method	R	Result	QUAL	R	ep.Lim	it	Dil.	Factor	Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORGA	ANICS						MCL	SV	V8015B	Ur	nits: mg/kg	g-dry
Diesel Range Organics (	C10-C28)	ND			5.	2		1	05/13/0	8 4:03	NW	4433770
Surr: n-Pentacosane		78.8		%	20-15	64		1	05/13/0	8 4:03	NW	4433770
Prep Method	Prep Date		Prep Initials	Prep	- Factor	:						
SW3550B	05/10/2008 17:52		QMT	1.00	)							
GASOLINE RANGE OF	RGANICS						MCL	SV	V8015B	Ur	nits: mg/kg	g-dry
Gasoline Range Organics	S	ND			0.	1		1	05/10/08	8 6:24	SFE	4428591
Surr: 1,4-Difluorobenze	ene	100		%	63-14	2		1	05/10/08	8 6:24	SFE	4428591
Surr: 4-Bromofluorober	nzene	99.1		%	50-15	9		1	05/10/0	8 6:24	SFE	4428591
Prep Method	Prep Date		Prep Initials	Prep	Factor							
SW5030B	05/08/2008 13:23		SFE	1.00	)							
ION CHROMATOGRAF	РНҮ						MCL	E300	.0 MOD	Ur	nits: mg/kg	g-dry
Chloride		171			2	1		4	05/12/08	23:19	A_E	4433831
PERCENT MOISTURE							MCL		D2216	Ur	nits: wt%	
Percent Moisture		4.67				0		1	05/08/08	13:22	ESK	4424876
VOLATILE ORGANICS	BY METHOD 8	260B					MCL	SV	V8260B	Ur	nits: ug/kg	-dry
Benzene		ND			5.	3		1	05/09/08	22:42	E_G	4429078
Ethylbenzene		ND			5.	3		1	05/09/08	22:42	E_G	4429078
Toluene		ND			5.	3		1	05/09/08	22:42	E_G	4429078
m,p-Xylene		ND			5.	3		1	05/09/08	22:42	E_G	4429078
o-Xylene		ND			5.	3		1	05/09/08	22:42	E_G	4429078
Xylenes,Total		ND			5.	3		1	05/09/08	22:42	E_G	4429078
Surr: 1,2-Dichloroethar	ne-d4	89.3		%	64-13	0		1	05/09/08	22:42	E_G	4429078
Surr: 4-Bromofluorober	nzene	91.3		%	62-13	0		1	05/09/08	22:42	E_G	4429078
Surr: Toluene-d8		103		%	70-14	0		1	05/09/08	22:42	E_G	4429078

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	05/08/2008 16:34	E_G	1.01

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$  Analyte detected in the associated Method Blank
- \* Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve
- TNTC Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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# **Quality Control Documentation**

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## Conoco Phillips

COP Wyatt A

Analysis:	Diesel Range Organic	s			WorkOrder:	08050489		
Method:	SW8015B				Lab Batch ID:	78759		
	Metho	od Blank		Samples in Analytical Batch:				
RunID: HP_2	Z_080510D-4433525	Units:	mg/kg	Lab Sample ID	Client Sar	nple ID		
Analysis Date:	05/11/2008 0:42	Analyst:	NW	08050489-01B	C14-SW-5	8		
Preparation Da	te: 05/09/2008 11:23 Pre		QMT Method SW3550B	08050489-02B	C2-SW-N			
				08050489-03B	C3-SW-N			
Г	A a ali ta		Deauth Deau Lineth	08050489-04B	C13-SW-5	6		
Analyte				08050489-05B	C5-Bot-14	1		
	Surr: n-Pentacosane		107.3 20-154	08050489-06B	C11-SW-N	N		
L		Į		08050489-07B	C12-SW-N	N		

### Laboratory Control Sample (LCS)

RunID:
Analysis Date:
Preparation Date

Date: 05/11/2008 1:05 on Date: 05/09/2008 11:23

HP\_Z\_080510D-4433526

Units: mg/kg Analyst: NW Prep By: QMT Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics (C10-C28)	66.6	63.8	95.7	57	150
Surr: n-Pentacosane	1.66	1.77	106	20	154

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08050254-01		
RunID:	HP_Z_080510D-4433538	Units:	mg/kg
Analysis Date:	05/11/2008 13:06	Analyst:	NW
Preparation Date:	05/09/2008 11:23	Prep By:	QMT Method SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics (C10-C28)	771	66.6	3960	N/C	66.6	10500	N/C	N/C	50	21	175
Surr: n-Pentacosane	ND	1.66	D	D	1.66	D	D	D	30	20	154

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

## Conoco Phillips

COP Wyatt A

Analysis: Method:	Diesel Range Organic SW8015B	6			WorkOrder: Lab Batch ID:	08050489 78831	
	Metho	d Blank		Samples in Analyti	cal Batch:		
RunID: HP_	unID: HP_Z_080512B-4434360 Units		mg/kg	Lab Sample ID	Client Sample ID		
Analysis Date:	05/12/2008 14:11	Analyst:	NW	08050489-08B	C12-SW-S		
Preparation Da	ate: 05/10/2008 16:38	Prep By:	QMT Method SW3550B	08050489-09B	C12-Bot-9'		
				08050489-10B	C10-SW-N		
Г	A		Desult Des Limit	08050489-11B	C19-SW-N		
	Analyte			08050489-12B	C18-Bot-6'		
<u> </u>	Surr: n-Pentacosane		83.2 20-154	08050489-13B	C17-SW-S		
F				08050489-14B	C14-Bot-8'		
				08050489-15B	C15-SW-N		
				08050489-16B	C13-SW-N		
				08050489-17B	C14-SW-N		
				08050489-18B	C15-SW-S		
				08050489-19B	C13-Bot-12	2'	
				08050489-20B	C15-Bot-8'		
				08050489-21B	C19-SW-W	/	
				08050489-22B	C17-SW-N		
				08050489-23B	C16-Bot-8'		
				08050489-24B	C16-SW-S		
				08050489-25B	C16-SW-N		
				08050489-26B	C18-SW-S		
				08050489-27B	C18-SW-N		

## Laboratory Control Sample (LCS)

RunID: Analysis Date: Preparation Date:

HP\_Z\_080512B-4434361 05/12/2008 14:33 05/10/2008 16:38 Units: mg/kg Analyst: NW Prep By: QMT Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics (C10-C28)	66.6	53.2	79.8	57	150
Surr: n-Pentacosane	1.66	1.71	103	20	154

### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

	Sample Spiked:	08050489-08						
	RunID:	HP_Z_080512B-4434363	Units:	mg/kg-dry				
	Analysis Date:	05/12/2008 15:17	Analyst:	NW				
	Preparation Date:	05/10/2008 16:38	Prep By:	QMT Method SW3550B				
Qualifiers:	ND/U - Not Detected at the Reporting Limit			MI - Matrix Interference				
	B/V - Analyte detected in the associ	iated Method Blank	D - Recovery	/ Unreportable due to Dilution				
	J - Estimated value between MDL a	ind PQL	* - Recovery	Outside Advisable QC Limits				
	E - Estimated Value exceeds calibra	ation curve						
	N/C - Not Calculated - Sample cond	centration is greater than 4	times the a	mount of spike added. Control limits do not app	oly.			
	TNTC - Too numerous to count				08050489 Page 55			
	ated on the OC Summers' Benert have	been rounded BDD and r	oroopt roop	(on () olugo				

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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### HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

08050489

78831

**Conoco Phillips** COP Wyatt A

Method:	SW8015B	Lab Batch ID:
Analysis:	Diesel Range Organics	WorkOrder:

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics (C10-C28)	ND	69.6	58.0	83.4	69.6	54.9	78.9	5.58	50	21	175
Surr: n-Pentacosane	ND	1.73	1.7	98.0	1.73	1.61	92.9	5.28	30	20	154

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference

D - Recovery Unreportable due to Dilution \* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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## Conoco Phillips

COP Wyatt A

Analysis: Method:	Diesel Range Organi SW8015B	cs			WorkOrder: Lab Batch ID:	08050489 78834
	Meth	od Blank		Samples in Analytic	al Batch:	
RunID: HP_Z_(	080513B-4433764	Units:	mg/kg	Lab Sample ID	Client San	nple ID
Analysis Date:	05/13/2008 1:48	Analyst:	NW	08050489-28B	C17-Bot-6'	
Preparation Date:	05/10/2008 17:52	Prep By:	QMT Method SW3550B	08050489-29B	C19-Bot-5'	
				08050489-30B	C19-SW-5	
	Analista		Desult Des Limit	08050489-31B	C11-Bot-9'	
Dia	Analyte	0)		08050489-32B	C10-Bot-8'	
Die	Surr: n-Pentacosane	0)	89.5 20-154	08050489-33B	C11-SW-S	5
		ļ.		08050489-34B	C9-SW-S	
				08050489-35B	C9-SW-N	
				08050489-36B	C9-Bot-8'	
				08050489-37B	C10-SW-S	;

#### Laboratory Control Sample (LCS)

RunID:
Analysis Date:
Preparation Date:

HP\_Z\_080513B-4433765 05/13/2008 2:10 e: 05/10/2008 17:52

Units: mg/kg Analyst: NW Prep By: QMT Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics (C10-C28)	66.6	53.9	80.9	57	150
Surr: n-Pentacosane	1.66	1.26	75.9	20	154

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08050489-37		
RunID:	HP_Z_080513B-4433771	Units:	mg/kg-dry
Analysis Date:	05/13/2008 4:25	Analyst:	NW
Preparation Date:	05/10/2008 17:52	Prep By:	QMT Method SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics (C10-C28)	ND	69.9	46.8	62.0	69.9	50.4	67.1	7.27	50	21	175
Surr: n-Pentacosane	ND	1.74	1.07	61.4	1.74	1.18	68.0	10.3	30	20	154

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

 ${\sf B/V}$  - Analyte detected in the associated Method Blank J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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C13-Bot-12' C15-Bot-8'

## **Conoco Phillips** COP Wyatt A

Analysis: Method:	Gasoline Range Org SW8015B	anics				WorkOrder: Lab Batch ID:	08050489 R236970	
	Met	hod Blank			Samples in Analytic	cal Batch:		
RunID: HP_R_(	080509A-4428516	Units:	mg/kg		Lab Sample ID	Client Sar	nple ID	
Analysis Date:	05/09/2008 5:35	Analyst:	SFE		08050489-01A	C14-SW-S	;	
Preparation Date:	05/09/2008 5:35	Prep By:	N	lethod	08050489-02A	C2-SW-N		
·					08050489-03A	C3-SW-N		
				<b>_</b> ]	08050489-04A	C13-SW-S	;	
	Analyte		Result	Rep Limit	08050489-05A	C5-Bot-14		
Gas	soline Range Organics		<u>ND</u> 96.6	0.10	08050489-06A	C11-SW-N	l	
S	Surr: 4-Bromofluorobenzene		106.1	50-159	08050489-07A	C12-SW-N	l	
					08050489-08A	C12-SW-S	;	
					08050489-09A	C12-Bot-9		
					08050489-10A	C10-SW-N	l	
					08050489-11A	C19-SW-N	l	
					08050489-12A	C18-Bot-6'		
					08050489-13A	C17-SW-S	;	
					08050489-14A	C14-Bot-8		
					08050489-15A	C15-SW-N	l	
					08050489-16A	C13-SW-N	I	
					08050489-17A	C14-SW-N	I	
					08050489-18A	C15-SW-S	5	

#### Laboratory Control Sample (LCS)

RunID:	HP_R_080509A-4428515	Units:	mg/kg	)	
Analysis Date:	05/09/2008 5:07	Analyst:	SFE		
Preparation Date:	05/09/2008 5:07	Prep By:		Method	SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1.00	1.04	104	70	130
Surr: 1,4-Difluorobenzene	0.100	0.0945	94.5	63	142
Surr: 4-Bromofluorobenzene	0.100	0.108	108	50	159

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

**Qualifiers:** 

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

- B/V Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
- J Estimated value between MDL and PQL

E - Estimated Value exceeds calibration curve

08050489-19A

08050489-20A

- \* Recovery Outside Advisable QC Limits

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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## **Conoco Phillips**

COP Wyatt A

Analysis: Method:	Gasoline Ran SW8015B	inge Organics							r: 0 ID: R	08050489 R236970			
		Sample Spiked: RunID: Analysis Date: Preparation Date:	08050 HP_R_ 05/09/ 05/08/	489-01 080509A-44285 <sup>-</sup> 2008 6:32 2008 12:47	18 Units: Analys Prep I	mg st: SF 3y: SF	ı/kg-dry E E Method S	W5030B					
	Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	

Gasoline Range Organics	ND	1.24	1.19	95.5	1.24	1.24	100	4.68	50	26	147
Surr: 1,4-Difluorobenzene	ND	0.124	0.118	95.2	0.124	0.129	104	8.84	30	63	142
Surr: 4-Bromofluorobenzene	ND	0.124	0.134	108	0.124	0.134	108	0.186	30	50	159

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$  - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference

k D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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C9-SW-N

C9-Bot-8'

C10-SW-S

### Conoco Phillips COP Wyatt A

Analysis: Method:	Gasoline Range Orga SW8015B	anics				WorkOrder: Lab Batch ID:	08050489 R236972
	Meth	od Blank			Samples in Analyt	WorkOrder:         08050489           Lab Batch ID:         R236972           ical Batch:         C10-SW-W           C19-SW-W         C17-SW-N           C16-Bot-8'         C16-SW-S           C16-SW-S         C16-SW-N           C18-SW-S         C18-SW-N           C17-Bot-6'         C19-Bot-5'           C19-SW-5         C11-Bot-9'           C10-Bot-8'         C10-Bot-8'	
RunID: HP_F	R_080509B-4428568	Units:	mg/kg		Lab Sample ID	Client Sam	nple ID
Analysis Date:	05/09/2008 19:30	Analyst:	SFE		08050489-21A	C19-SW-W	 /
Preparation Da	te: 05/09/2008 19:30	Prep By:	Ν	/lethod	08050489-22A	C17-SW-N	
					08050489-23A	C16-Bot-8'	
	• • • •		<b>D</b> <i>V</i>		08050489-24A	C16-SW-S	
	Analyte		Result	Rep Limit	08050489-25A	C16-SW-N	
G	Basoline Range Organics		ND	0.10	08050489-264	C18-SW-S	
	Surr: 1,4-Difluorobenzene		98.7	63-142	00030403-20A	010-010-0	
	Surr: 4-Bromofluorobenzene		99.4	50-159	08050489-27A	C18-SW-N	
					08050489-28A	C17-Bot-6'	
					08050489-29A	C19-Bot-5'	
					08050489-30A	C19-SW-5	
					08050489-31A	C11-Bot-9'	
					08050489-32A	C10-Bot-8'	
					08050489-33A	C11-SW-S	
					08050489-34A	C9-SW-S	

#### Laboratory Control Sample (LCS)

08050489-35A

08050489-36A

08050489-37A

RunID:	HP_R_080509B-4428567	Units:	mg/kg
Analysis Date:	05/09/2008 19:02	Analyst:	SFE
Preparation Date:	05/09/2008 19:02	Prep By:	Method SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1.00	0.974	97.4	70	130
Surr: 1,4-Difluorobenzene	0.100	0.104	104	63	142
Surr: 4-Bromofluorobenzene	0.100	0.103	103	50	159

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08050489-22		
RunID:	HP_R_080509B-4428571	Units:	mg/kg-dry
Analysis Date:	05/09/2008 20:56	Analyst:	SFE
Preparation Date:	05/08/2008 13:11	Prep By:	SFE Method SW5030B

 Qualifiers:
 ND/U - Not Detected at the Reporting Limit
 MI - Matrix Interference

 B/V - Analyte detected in the associated Method Blank
 D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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## Conoco Phillips

COP Wyatt A

Analysis:	Gasoline Range Or	ganics						WorkOrder	: 080	150489			
Method:	SW8015B							Lab Batch	ID: R2:	36972			
Anal	yte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	
Gasoline Range Orga	anics	ND	1.01	0.955	94.2	1.01	0.954	94.1	0.149	50	26	147	
Surr: 1,4-Difluorobe	enzene	ND	0.101	0.105	104	0.101	0.105	104	0	30	63	142	
Surr: 4-Bromofluor	obenzene	ND	0.101	0.103	102	0.101	0.102	101	0.691	30	50	159	

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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## **Conoco Phillips** COP Wyatt A

Analysis: Method:	Volatile Organics by SW8260B	Method 826	0B			WorkOrder: Lab Batch ID:	08050489 78755
	Meth	od Blank			Samples in Analytical	Batch:	
RunID: L_(	080508B-4426517	Units:	ug/kg		Lab Sample ID	Client Samp	ble ID
Analysis Date	e: 05/08/2008 14:02	Analyst:	E_G		08050489-20A	C15-Bot-8'	
-		-			08050489-21A	C19-SW-W	
					08050489-22A	C17-SW-N	
				<b>-</b> · · · ·	08050489-23A	C16-Bot-8'	
	Analyte		Result	Rep Limit	08050489-24A	C16-SW-S	
	Benzene		ND	5.0	08050480 254		
	Ethylbenzene		ND	5.0	08050489-25A	C16-SW-N	
	Toluene		ND	5.0	08050489-26A	C18-SW-S	
	m,p-Xylene		ND	5.0	08050489-274	C18-SW-N	
	o-Xylene		ND	5.0	00000405 217		
	Xylenes,Total		ND	5.0	08050489-28A	C17-Bot-6'	
	Surr: 1,2-Dichloroethane-d4		86.0	64-130	08050489-29A	C19-Bot-5'	
	Surr: 4-Bromofluorobenzene		94.0	62-130	09050490 204	C10 SW 5	
	Surr: Toluene-d8		102.0	70-140	00030409-30A	019-310-5	
	<u> </u>				08050489-31A	C11-Bot-9'	

### Laboratory Control Sample (LCS)

RunID:	L_080508B-4426516	Units:	ug/kg
Analysis Date:	05/08/2008 13:22	Analyst:	E_G

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	21.0	105	66	142
Ethylbenzene	20.0	24.0	120	35	175
Toluene	20.0	25.0	125	59	139
m,p-Xylene	40.0	50.0	125	35	175
o-Xylene	20.0	25.0	125	35	175
Xylenes,Total	60	75	120	35	175
Surr: 1,2-Dichloroethane-d4	50.0	42	84.0	64	130
Surr: 4-Bromofluorobenzene	50.0	49	98.0	62	130
Surr: Toluene-d8	50.0	51	102	70	140

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

	Sample Spil RunlD: Analysis Da Preparation	ed: 08050451-0 L_080508B-4 e: 05/08/2008 Date: 05/08/2008	)1 1426519 Units: 14:54 Analyst: 13:22 Prep By:	ug/kg E_G E_G Method SW5030B	
Qualifiers:	ND/U - Not Detected at the	Reporting Limit	MI - Matrix	Interference	
	B/V - Analyte detected in the	associated Method F	Blank D - Recove	ry Unreportable due to Dilution	
	J - Estimated value between	MDL and PQL	* - Recover	y Outside Advisable QC Limits	
	E - Estimated Value exceeds	calibration curve			
	N/C - Not Calculated - Samp	le concentration is g	reater than 4 times the	amount of spike added. Control	limits do not apply.
	TNTC - Too numerous to co	unt		08050489 Page 62	
QC results present calculated by the S	ed on the QC Summary Repo PL LIMS system are derived fi	t have been rounded om QC data prior to	l. RPD and percent record the application of round	overy values ing rules.	5/14/08 4:53:17 PM



Conoco Phillips

COP Wyatt A

Analysis: Volatile Organi	cs by Method 826	0B					WorkOrder:	080	)50489 /		
Method: SW8260B							Lab Batch IL	J: 787	20		
Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	16.0	79.8	20	16.0	80.2	0	21	66	142
Ethylbenzene	ND	20	18.0	89.8	20	18.0	90.2	0	30	35	175
Toluene	ND	20	18.0	89.8	20	18.0	90.2	0	21	59	139
m,p-Xylene	ND	40.1	37.0	92.3	39.9	36.0	90.2	2.74	30	35	175
o-Xylene	ND	20	18.0	89.8	20	18.0	90.2	0	30	35	175
Xylenes,Total	ND	60	55	91	60	54	90	1.8	30	35	175
Surr: 1,2-Dichloroethane-d4	ND	50.1	46	91.8	49.9	46.0	92.2	0	30	64	130
Surr: 4-Bromofluorobenzene	ND	50.1	51	102	49.9	50.0	100	1.98	30	62	130
Surr: Toluene-d8	ND	50.1	50	99.8	49.9	50.0	100	0	30	70	140

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$  - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference

b - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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## **Conoco Phillips**

COP Wyatt A

Analysis: Method:	Volatile Organics by SW8260B	Method 826	60B			WorkOrder: Lab Batch ID:	08050489 78804			
	Meth	od Blank			Samples in Analyti	Samples in Analytical Batch:				
RunID: L_	080509A-4429066	Units:	ug/kg		Lab Sample ID	Client San	nple ID			
Analysis Date	e: 05/09/2008 20:06	Analyst:	E_G		08050489-32A	C10-Bot-8'				
		-			08050489-33A	C11-SW-S	i			
					08050489-34A	C9-SW-S				
					08050489-35A	C9-SW-N				
	Analyte		Result	Rep Limit	08050489-364	C9-Bot-8				
	Benzene		ND	5.0		00 200 0				
	Ethylbenzene		ND	5.0	08050489-37A	C10-SW-S				
	Toluene		ND	5.0						
	m,p-Xylene		ND	5.0						
	o-Xylene		ND	5.0						
	Xylenes,Total		ND	5.0						
	Surr: 1,2-Dichloroethane-d4		84.0	64-130						
	Surr: 4-Bromofluorobenzene		94.0	62-130						
	Surr: Toluene-d8		104.0	70-140						

#### Laboratory Control Sample (LCS)

RunID:	L_080509A-4429064	Units:	ug/kg
Analysis Date:	05/09/2008 19:40	Analyst:	E_G

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	20.0	100	66	142
Ethylbenzene	20.0	22.0	110	35	175
Toluene	20.0	27.0	135	59	139
m,p-Xylene	40.0	44.0	110	35	175
o-Xylene	20.0	22.0	110	35	175
Xylenes,Total	60	66	110	35	175
Surr: 1,2-Dichloroethane-d4	50.0	44	88.0	64	130
Surr: 4-Bromofluorobenzene	50.0	50	100	62	130
Surr: Toluene-d8	50.0	51	102	70	140

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08050274-49		
RunID:	L_080509A-4429081	Units:	ug/kg-dry
Analysis Date:	05/09/2008 23:34	Analyst:	E_G
Preparation Date:	05/08/2008 16:24	Prep By:	E_G Method SW5030B

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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## Conoco Phillips

COP Wyatt A

Analysis: Volatile Organi	ics by Method 826	0B					WorkOrder: 08050				
Method: SW8260B	SW8260B							D: 788	304		
Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	325	25.8	312	N/C	25.9	299	N/C	N/C	21	66	142
Ethylbenzene	702	25.8	715	N/C	25.9	559	N/C	N/C	30	35	175
Toluene	15.6	25.8	33.8	70.7	25.9	31.2	60.4	8.00	21	59	139
m,p-Xylene	29.9	51.5	67.6	73.2	51.7	55.9	50.3	18.9	30	35	175
o-Xylene	ND	25.8	20.8	70.7	25.9	18.2	60.4	13.3	30	35	175
Xylenes,Total	32.5	77.3	88.4	72.4	77.6	74.1	53.7	17.6	30	35	175
Surr: 1,2-Dichloroethane-d4	ND	64.4	54.6	84.8	64.6	58.5	90.5	6.90	30	64	130
Surr: 4-Bromofluorobenzene	ND	64.4	72.8	113	64.6	70.2	109	3.64	30	62	130
Surr: Toluene-d8	ND	64.4	65	101	64.6	63.7	98.6	2.02	30	70	140

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$  - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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## Conoco Phillips

COP Wyatt A

Analysis: Method:	Volatile Organics b SW8260B	y Method 826	50B			WorkOrder: Lab Batch ID:	08050489 78811				
	Me	hod Blank			Samples in Analytica	al Batch:					
RunID: Q	_080509A-4429004	509A-4429004 Units:		29004 Units:		A-4429004 Units:			Lab Sample ID	Client San	<u>ple ID</u>
Analysis Da	te: 05/09/2008 8:49	Analyst:	JC		08050489-01A	C14-SW-S					
					08050489-02A	C2-SW-N					
					08050489-03A	C3-SW-N					
					08050489-04A	C13-SW-S					
	Analyte	Analyte		Rep Limit	08050489-05A	C5-Bot-14'					
	Benzene		ND	5.0							
	Ethylbenzene		ND	5.0	08050489-06A	C11-SW-N					
	Toluene		ND	5.0							
	m,p-Xylene		ND	5.0							
	o-Xylene		ND	5.0							
	Xylenes,Total		ND	5.0							
	Surr: 1,2-Dichloroethane-d4		88.0	64-130							
	Surr: 4-Bromofluorobenzene	Surr: 4-Bromofluorobenzene		62-130							
	Surr: Toluene-d8		102.0	70-140							

Laborator	y Control	Sample	(LCS)

RunID:	Q_080509A-4429003	Units:	ug/kg
Analysis Date:	05/09/2008 8:21	Analyst:	JC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	20.0	100	66	142
Ethylbenzene	20.0	22.0	110	35	175
Toluene	20.0	23.0	115	59	139
m,p-Xylene	40.0	48.0	120	35	175
o-Xylene	20.0	24.0	120	35	175
Xylenes,Total	60	72	120	35	175
Surr: 1,2-Dichloroethane-d4	50.0	43	86.0	64	130
Surr: 4-Bromofluorobenzene	50.0	51	102	62	130
Surr: Toluene-d8	50.0	53	106	70	140

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08050489-01				
RunID:	Q_080509A-4429006	Units:	ug/kg	-dry	
Analysis Date:	05/09/2008 10:17	Analyst:	JC		
Preparation Date:	05/08/2008 15:12	Prep By:	JC	Method	SW5030B

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

 $\mathsf{B/V}$  - Analyte detected in the associated Method Blank J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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## Conoco Phillips

COP Wyatt A

Analysis: Volatile Organi	cs by Method 826	0B					WorkOrder:	080	08050489		
Method: SW8260B	W8260B							Lab Batch ID: 788		311	
Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	25	22.4	89.5	24.9	21.1	85.0	5.71	21	66	142
Ethylbenzene	ND	25	24.9	99.4	24.9	24.9	100	0	30	35	175
Toluene	ND	25	26.1	104	24.9	24.9	100	4.88	21	59	139
m,p-Xylene	ND	50.1	53.5	107	49.8	52.2	105	2.35	30	35	175
o-Xylene	ND	25	26.1	104	24.9	26.1	105	0	30	35	175
Xylenes,Total	ND	75.1	79.6	106	74.6	78.3	105	1.57	30	35	175
Surr: 1,2-Dichloroethane-d4	ND	62.6	52.2	83.5	62.2	54.7	88.0	4.65	30	64	130
Surr: 4-Bromofluorobenzene	ND	62.6	62.2	99.4	62.2	65.9	106	5.83	30	62	130
Surr: Toluene-d8	ND	62.6	65.9	105	62.2	67.2	108	1.87	30	70	140

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$  - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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## HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

## **Conoco Phillips** COP Wyatt A

Analysis: Method:	Volatile Organics b SW8260B	y Method 8260	)B		WorkOrder: Lab Batch ID:	08050489 78813	
	Met	hod Blank		Samples in Analytic	cal Batch:		
RunID: Q_0805	510A-4429745	Units:	ug/kg	Lab Sample ID	Client Sa	ample ID	
Analysis Date:	05/10/2008 0:44	Analyst:	JC	08050489-07A	WorkOrder: Lab Batch ID: cal Batch: Client San C12-SW-N C12-SW-S C12-Bot-9'	۱	
				08050489-08A	C12-SW-8	6	
				08050489-09A	C12-Bot-9	'	

Analyte	Result	Rep Limit
Benzene	ND	5.0
Ethylbenzene	ND	5.0
Toluene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	82.0	64-130
Surr: 4-Bromofluorobenzene	100.0	62-130
Surr: Toluene-d8	104.0	70-140

Samples in Analytical Batch	
Lab Sample ID	Client Sample ID
08050489-07A	C12-SW-N
08050489-08A	C12-SW-S
08050489-09A	C12-Bot-9'
08050489-10A	C10-SW-N
08050489-11A	C19-SW-N
08050489-12A	C18-Bot-6'
08050489-13A	C17-SW-S
08050489-14A	C14-Bot-8'
08050489-15A	C15-SW-N
08050489-17A	C14-SW-N
08050489-18A	C15-SW-S
08050489-19A	C13-Bot-12'

## Laboratory Control Sample (LCS)

RunID:	Q_080510A-4429744	Units:	ug/kg
Analysis Date:	05/10/2008 0:15	Analyst:	JC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	19.0	95.0	66	142
Ethylbenzene	20.0	21.0	105	35	175
Toluene	20.0	21.0	105	59	139
m,p-Xylene	40.0	43.0	108	35	175
o-Xylene	20.0	22.0	110	35	175
Xylenes,Total	60	65	110	35	175
Surr: 1,2-Dichloroethane-d4	50.0	41	82.0	64	130
Surr: 4-Bromofluorobenzene	50.0	48	96.0	62	130
Surr: Toluene-d8	50.0	53	106	70	140

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

	S F A F	Sample Spiked: RunID: Analysis Date: Preparation Date:	08041877-05 Q_080510A-4429759 05/10/2008 8:16 05/09/2008 12:50	Units: Analyst: Prep By:	ug/kg JC JC	Method	SW5030B	
Qualifiers:	ND/U - Not Dete	ected at the Reporting	g Limit	MI - Matrix In	terfere	nce		
	B/V - Analyte det	tected in the associa	ated Method Blank	D - Recovery	Unrep	ortable d	ue to Dilution	
	J - Estimated val	lue between MDL an	d PQL	* - Recovery	Outsid	e Advisa	ble QC Limits	
	E - Estimated Va	alue exceeds calibrat	tion curve					
	N/C - Not Calcula	ated - Sample conce	entration is greater than	4 times the an	nount o	of spike a	dded. Control limits do not apply.	
	TNTC - Too num	nerous to count						08050489 Page 68
QC results presented calculated by the SF	ed on the QC Sum PL LIMS system a	nmary Report have be are derived from QC of	een rounded. RPD and data prior to the applicat	percent recovi ion of roundin	ery val g rules	ues S.		5/14/08 4:53:20 PM



## Conoco Phillips

COP Wyatt A

Analysis: Volatile Organics by Method 8260B					WorkOrder:	080	50489				
Method: SW8260B							Lab Batch ID	): 788	13		
Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	18.0	90.2	19.8	17.0	85.9	5.71	21	66	142
Ethylbenzene	ND	20	20.0	100	19.8	20.0	101	0	30	35	175
Toluene	ND	20	21.0	105	19.8	20.0	101	4.88	21	59	139
m,p-Xylene	ND	39.9	42.0	105	39.6	40.0	101	4.88	30	35	175
o-Xylene	ND	20	21.0	105	19.8	21.0	106	0	30	35	175
Xylenes,Total	ND	60	63	110	59	61	100	3.2	30	35	175
Surr: 1,2-Dichloroethane-d4	ND	49.9	48	96.2	49.5	44.0	88.9	8.70	30	64	130
Surr: 4-Bromofluorobenzene	ND	49.9	50	100	49.5	51.0	103	1.98	30	62	130
Surr: Toluene-d8	ND	49.9	52	104	49.5	52.0	105	0	30	70	140

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$  - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference

nk D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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## Quality Control Report

## Conoco Phillips

COP Wyatt A

Analysis: Volatile Organics by Method: SW8260B	Method 826	0B		WorkOrder: Lab Batch ID:	08050489 78851
Meth	od Blank		Samples in Analytical	Batch:	
RunID: Q_080510D-4429764	Units:	ug/kg	Lab Sample ID	Client Sam	nple ID
Analysis Date: 05/10/2008 16:34	Analyst:	JC	08050489-16A	C13-SW-N	

Analyte	Result	Rep Limit
Benzene	ND	5.0
Ethylbenzene	ND	5.0
Toluene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	86.0	64-130
Surr: 4-Bromofluorobenzene	96.0	62-130
Surr: Toluene-d8	94.0	70-140

Laborate	Laboratory Control Sample (LCS)						
Q 080510D-442	9763	l Inite:	ua/ka				

RunID:	Q_080510D-4429763
Analysis Date:	05/10/2008 16:07

Analyst: JC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	22.0	110	66	142
Ethylbenzene	20.0	23.0	115	35	175
Toluene	20.0	24.0	120	59	139
m,p-Xylene	40.0	46.0	115	35	175
o-Xylene	20.0	23.0	115	35	175
Xylenes,Total	60	69	120	35	175
Surr: 1,2-Dichloroethane-d4	50.0	39	78.0	64	130
Surr: 4-Bromofluorobenzene	50.0	51	102	62	130
Surr: Toluene-d8	50.0	52	104	70	140

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08050489-16				
RunID:	Q_080510D-4429766	Units:	ug/kg	-dry	
Analysis Date:	05/10/2008 17:30	Analyst:	JC		
Preparation Date:	05/08/2008 15:46	Prep By:	JC	Method	SW5030B

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

 $\mathsf{B/V}$  - Analyte detected in the associated Method Blank J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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## Conoco Phillips

COP Wyatt A

Analysis: Volatile Organi	cs by Method 826	60B					WorkOrder:	080	)50489		
Method: SW8260B							Lab Batch ID	): 788	851		
Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20.7	18.6	90.0	20.6	19.7	95.4	5.41	21	66	142
Ethylbenzene	ND	20.7	19.7	95.0	20.6	19.7	95.4	0	30	35	175
Toluene	ND	20.7	19.7	95.0	20.6	18.6	90.4	5.41	21	59	139
m,p-Xylene	ND	41.4	39.4	95.0	41.3	41.4	100	5.13	30	35	175
o-Xylene	ND	20.7	20.7	100	20.6	20.7	100	0	30	35	175
Xylenes,Total	ND	62.2	60.1	96.7	61.9	62.1	100	3.39	30	35	175
Surr: 1,2-Dichloroethane-d4	ND	51.8	41.4	80.0	51.6	48.7	94.4	16.1	30	64	130
Surr: 4-Bromofluorobenzene	ND	51.8	51.8	100	51.6	50.8	98.4	2.02	30	62	130
Surr: Toluene-d8	ND	51.8	50.8	98.0	51.6	46.6	90.4	8.51	30	70	140

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$  - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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## **Conoco Phillips**

Analysis: Nethod:	SPLP Volatile Organ SW8260B	ics						Work Lab I	Order: Batch ID:	08050489 R237059
	Meth	od Blank				Samp	les in Analy	tical Batch	ו:	
RunID: N_	080510C-4429933	Units:	ug/L			l ah S	amnie ID		Client Sar	nnle ID
Analysis Dat	e: 05/10/2008 12:34	Analyst:	IТ			08050	489-05B		C5-Bot-14	
and yold Dat	0. 00/10/2000 12.01	/ that you				08050	489-09B		C12-Bot-9	
						08050	489-12B		C18-Bot-6	
					_	08050	489-14B		C14-Bot-8	
	Analyte		Result	Rep Lim	it	08050	489-19B		C13-Bot-12	2'
	Benzene		ND	5.	0	08050	489-20B		C15-Bot-8	-
	Toluene		ND	5.	0	08050	489-23B		C16-Bot-8	
	m,p-Xylene		ND	5.	0	08050	489-28B		C17-Bot-6	
	o-Xylene		ND	5.	0	08050	489-29B		C19-Bot-5	
	Surr: 1.2-Dichloroethane-d4		96.0	5. 62-13	0	08050	489-31B		C11-Bot-9	
	Surr: 4-Bromofluorobenzene		92.0	70-13	0	08050	489-32B		C10-Bot-8	
	Surr: Toluene-d8		96.0	74-12	2	08050	1489-36B		C9-Bot-8'	
						00000	100 00B		00 00 0	
	Leach	nate Blank								
PuplD:	N 080510C-4429934	L Inite:	ua/l							
Kunid.	N_0003100-4423334	Units.	ug/∟							
Analysis Date	e: 05/10/2008 13:00	Analyst:	LT							
each Date:	05/09/2008 0:00	Leach By	y:GFN	/lethod S	W1312					
	Analyte		Result	Ren I im	it					
	Benzene		ND	100 Eim 5	0					
	Ethylbenzene		ND	5.	0					
	Toluene		ND	5.	0					
	m,p-Xylene			5.	0					
	Xylenes,Total		ND	5.	0					
	Surr: 1,2-Dichloroethane-d4		96.0	62-13	0					
	Surr: 4-Bromofluorobenzene		90.0	70-13	0					
	Sull. Toluelle-do		90.0 La	boratorv	∠ Control S	Sample (L	CS)			
	RunID:		N_080510	)C-442993	2 Ur	nits: u	g/L			
	Analysi	s Date:	05/10/20	08 11:57	Ar	alyst: L	Т			
		Analy	te		Spike	Result	Percent	Lower	Upper	
					Added		Recovery	Limit	Limit	
	Benzene				20.0	21.0	105	76	126	
	Ethylbenz	ene			20.0	16.0	80.0	67	122	
	Toluene				20.0	19.0	95.0	70	131	
	m,p-Xylen	е			40.0	34.0	85.0	72	150	
	o-Xylene				20.0	18.0	90.0	78	141	
Qualifiers:	ND/U - Not Detected	at the Report	ing Limit		MI	- Matrix Int	erference			
	B/V - Analyte detecte	d in the asso	ciated Met	hod Blank	k D-	Recovery	Unreportable	due to Dilu	ition	
	J - Estimated value be	etween MDL	and PQL		* -	Recovery C	Outside Advisa	able QC Li	mits	
	E - Estimated Value e	exceeds calib	ration curv	/e		-				

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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## **Conoco Phillips**

COP Wyatt A

Analysis: Method:	SPLP Volatile Organics SW8260B				WorkOrder: Lab Batch ID:	08050489 R237059	
		Laboratory Cor	ntrol Sample	(LCS)			
	RunID:	N_080510C-4429932	Units:	ug/L			
	Analysis Date:	05/10/2008 11:57	Analyst:	LT			

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Xylenes,Total	60	52	87	72	150
Surr: 1,2-Dichloroethane-d4	50.0	46	92.0	62	130
Surr: 4-Bromofluorobenzene	50.0	50	100	70	130
Surr: Toluene-d8	50.0	50	100	74	122

#### Matrix Spike (MS)

Sample Spiked:	08050406-01		
RunID:	N_080510C-4429936	Units:	ug/L
Analysis Date:	05/10/2008 14:45	Analyst:	LT

Analyte	Sample Result	Spike Added	MS Result	MS % Recovery	Low Limit	High Limit
Benzene	10000	200	10000	N/C	76	127
Ethylbenzene	54.0	200	230	88.0	35	175
Toluene	5500	200	5500	N/C	70	131
m,p-Xylene	210	400	550	85.0	35	175
o-Xylene	100	200	280	90.0	35	175
Xylenes,Total	310	600	830	87	35	175
Surr: 1,2-Dichloroethane-d4	ND	500	500	100	62	130
Surr: 4-Bromofluorobenzene	ND	500	500	100	70	130
Surr: Toluene-d8	ND	500	490	98.0	74	122

**Qualifiers:** 

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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**Quality Control Report** 



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

## Conoco Phillips COP Wyatt A

Analysis: Method:	PERCENT MOISTURE D2216		WorkOrder: Lab Batch ID:	08050489 R236760A
		Samples in Analytic	al Batch:	
		Lab Sample ID	Client Sam	ple ID
		08050489-31B	C11-Bot-9'	
		08050489-32B	C10-Bot-8'	
		08050489-33B	C11-SW-S	
		08050489-34B	C9-SW-S	
		08050489-35B	C9-SW-N	
		08050489-36B	C9-Bot-8'	
		08050489-37B	C10-SW-S	

#### Sample Duplicate

Original Sample:	08050489-37		
RunID:	WET_080508E-4424876	Units:	wt%
Analysis Date:	05/08/2008 13:22	Analyst:	ESK

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Percent Moisture	4.67	4.671	0	20

**Qualifiers:** 

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

 $\ensuremath{\mathsf{B/V}}\xspace$  - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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## Conoco Phillips COP Wyatt A

Analysis: Method:	PERCENT MOISTURE D2216		WorkOrder: Lab Batch ID:	08050489 R236760B
		Samples in Analytica	I Batch:	
		Lab Sample ID	Client San	nple ID
		08050489-21B	C19-SW-V	V
		08050489-22B	C17-SW-N	I
		08050489-23B	C16-Bot-8'	
		08050489-24B	C16-SW-S	5
		08050489-25B	C16-SW-N	I
		08050489-26B	C18-SW-S	5
		08050489-27B	C18-SW-N	l
		08050489-28B	C17-Bot-6'	
		08050489-29B	C19-Bot-5'	
		08050489-30B	C19-SW-5	

#### Sample Duplicate

Original Sample:	08050489-30		
RunID:	WET_080508E-4424884	Units:	wt%
Analysis Date:	05/08/2008 13:22	Analyst:	ESK

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Percent Moisture	3.85	4.006	3.92	20

**Qualifiers:** 

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

 $\ensuremath{\mathsf{B/V}}\xspace$  - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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## Conoco Phillips COP Wyatt A

Analysis: Method:	PERCENT MOISTURE D2216		WorkOrder: Lab Batch ID:	08050489 R236760C
		Samples in Analytica	I Batch:	
		Lab Sample ID	Client Sar	nple ID
		08050489-11B	C19-SW-N	J
		08050489-12B	C18-Bot-6	
		08050489-13B	C17-SW-S	6
		08050489-14B	C14-Bot-8	
		08050489-15B	C15-SW-N	J
		08050489-16B	C13-SW-N	J
		08050489-17B	C14-SW-N	I
		08050489-18B	C15-SW-S	3
		08050489-19B	C13-Bot-12	2'
		08050489-20B	C15-Bot-8	

#### Sample Duplicate

Original Sample:	08050489-20		
RunID:	WET_080508E-4424895	Units:	wt%
Analysis Date:	05/08/2008 13:22	Analyst:	ESK

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Percent Moisture	3.5	3.515	0.363	20

**Qualifiers:** 

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

 $\ensuremath{\mathsf{B/V}}\xspace$  - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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C10-SW-N

## Conoco Phillips COP Wyatt A

Analysis: Method:	PERCENT MOISTURE D2216	-	WorkOrder: Lab Batch ID:	08050489 R236760D
		Samples in Analytical Batch:		
		Lab Sample ID	Client San	nple ID
		08050489-01B	C14-SW-S	i
		08050489-02B	C2-SW-N	
		08050489-03B	C3-SW-N	
		08050489-04B	C13-SW-S	i
		08050489-05B	C5-Bot-14'	
		08050489-06B	C11-SW-N	l
		08050489-07B	C12-SW-N	l
		08050489-08B	C12-SW-S	
		08050489-09B	C12-Bot-9'	

#### Sample Duplicate

08050489-10B

Original Sample:	08050489-10		
RunID:	WET_080508E-4424906	Units:	wt%
Analysis Date:	05/08/2008 13:22	Analyst:	ESK

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Percent Moisture	11.3	11.26	0.664	20

**Qualifiers:** 

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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# Conoco Phillips

COP Wyatt A

Analysis: Method:	Ion Chromatography E300.0 MOD	,				WorkOrder: Lab Batch ID:	08050489 R236985F
Method: RunID: IC Analysis Date	E300.0 MOD <u>Meth</u> 1_080509D-4428746 e: 05/09/2008 21:44 <u>Analyte</u> <u>Chloride</u>	od Blank Units: Analyst:	mg/kg A_E Result Rep Limit ND 5.0	Sa 08 08 08 08 08 08 08 08	mples in Analyt <u>b Sample ID</u> 050489-01B 050489-02B 050489-03B 050489-04B 050489-05B 050489-06B	Lab Batch ID: ical Batch: C14-SW-S C2-SW-N C3-SW-N C13-SW-S C5-Bot-14' C11-SW-N	R236985F
				08 08 08 08	050489-07B 050489-08B 050489-09B 050489-10B	C12-SW-N C12-SW-S C12-Bot-9' C10-SW-N	
	RunID: Analysi	s Date:	Laboratory Cont IC1_080509D-4428747 05/09/2008 22:00	t <b>rol Sample</b> Units: Analvst:	mg/kg		

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	100.0	94.08	94.08	80	120

### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08050489-02		
RunID:	IC1_080509D-4428752	Units:	mg/kg-dry
Analysis Date:	05/09/2008 23:23	Analyst:	A_E

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	92.61	223.2	290.7	88.75	223.2	287.6	87.36	1.073	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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# **Conoco Phillips**

COP Wyatt A

Analysis: Method:	Ion Chromatography E300.0 MOD				WorkOrder: Lab Batch ID:	08050489 R236985G
	Meth	od Blank		Samples in Analyt	ical Batch:	
RunID: IC1_	080509D-4428764	Units:	mg/kg	Lab Sample ID	Client San	nple ID
Analysis Date:	05/10/2008 2:40	Analyst:	A_E	08050489-11B	C19-SW-N	 
				08050489-12B	C18-Bot-6'	
				08050489-13B	C17-SW-S	;
Г	Analisa		Desult Des Limit	08050489-14B	C14-Bot-8'	
0	Analyte			08050489-15B	C15-SW-N	l
Ľ	Shioride		ND 5.0	08050489-16B	C13-SW-N	l
				08050489-17B	C14-SW-N	l
				08050489-18B	C15-SW-S	;
				08050489-19B	C13-Bot-12	2'
				08050489-20B	C15-Bot-8'	
			Laboratory Co	ntrol Sample (LCS)		

RunID:	IC1_080509D-4428765	Units:	mg/kg
Analysis Date:	05/10/2008 2:56	Analyst:	A_E

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	100.0	93.90	93.90	80	120

### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08050489-15		
RunID:	IC1_080509D-4428771	Units:	mg/kg-dry
Analysis Date:	05/10/2008 4:35	Analyst:	A_E

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	255.0	417.1	650.1	94.72	417.1	650.2	94.75	0.01604	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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# Conoco Phillips

COP Wyatt A

Analysis: Method:	lon Chromatograph E300.0 MOD	у						Work Lab I	Order: Batch ID:	08 R2	050489 237218		
	Met	thod Blank				Samp	oles in Analy	tical Batch	n:				
RunID: IC1_080	510A-4432603	Units:	mg/kg			Lab S	Sample ID		Client S	Sample	ID		
Analysis Date:	05/10/2008 11:53	Analyst:	ΑE			08050	)489-21B		C19-SV	V-W			
,		,	_			08050	)489-22B		C17-SV	V-N			
						08050	0489-23B		C16-Bo	t-8'			
	• • •					08050	0489-24B		C16-SV	V-S			
Ohla	Analyte		Result	Rep Limi	it	08050	)489-25B		C16-SV	V-N			
Chic	oride		INL	5.0	0	08050	)489-26B		C18-SV	V-S			
						08050	)489-27B		C18-SV	V-N			
						08050	)489-28B		C17-Bo	t-6'			
	RunlE Analy:	): sis Date:	IC1_0805 05/10/20	510A-44326 008 12:10	04 Ui Ar	nits: m nalyst: A	ng/kg _E			-			
		Analy	te		Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit				
	Chloride				100.0	90.55	90.55	80	120				
		Matrix	Spike (I	MS) / Matr	ix Spike	Duplicate	(MSD)						
							<u></u>						
	Sam	ple Spiked:	08050	489-28									
RunID: IC1_080510A-443				2615	Units:	mg/kg-dry							
	Ana	lysis Date:	05/10/	2008 15:1	1 .	Analyst:	A_E						
A	Analyte	Sample Result	MS Spike	MS Result	MS	% MS	D MSD	MSI t Reco	) %	RPD	RPD Limit	Low Limit	High Limit

Result Spike Result Recovery Spike Result Recovery Limit Limit Added Added 148.6 107.7 267.3 107.7 267.3 110.2 0.02417 20 Chloride 110.2 75

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank D - Recov

J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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# Conoco Phillips

COP Wyatt A

Analysis: Method:	Ion Chromatography E300.0 MOD	,			WorkOrder: Lab Batch ID:	08050489 R237291
	Meth	od Blank		Samples in Analyti	cal Batch:	
RunID: IC1	_080512A-4433819	Units:	mg/kg	Lab Sample ID	Client Sar	nple ID
Analysis Date	: 05/12/2008 20:02	Analyst:	A_E	08050489-29B	C19-Bot-5	
				08050489-30B	C19-SW-5	
				08050489-31B	C11-Bot-9	
	Analyta		David David	08050489-32B	C10-Bot-8	
	Chlorido			08050489-33B	C11-SW-S	5
	Chionde		ND 5.0	08050489-34B	C9-SW-S	
				08050489-35B	C9-SW-N	
				08050489-36B	C9-Bot-8'	
				08050489-37B	C10-SW-S	3

### Laboratory Control Sample (LCS)

RunID:	IC1_080512A-4433820	Units:	mg/kg
Analysis Date:	05/12/2008 20:18	Analyst:	A_E

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	100.0	100.6	100.6	80	120

### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08050489-37		
RunID:	IC1_080512A-4433834	Units:	mg/kg-dry
Analysis Date:	05/13/2008 0:08	Analyst:	A_E

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	171.0	419.6	579.9	97.44	419.6	594.5	100.9	2.487	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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# Conoco Phillips

COP Wyatt A

Analysis: Method:	Ion Chromatograph SW9056	y - SPLP						Worl Lab	Order: Batch ID	08 : R2	050489 2372938	6	
	Met	hod Blank				Samp	oles in Analy	tical Batc	า:				
RunID: IC1_08 Analysis Date:	80512B-4433887 05/13/2008 0:41	Units: Analyst:	mg/L A_E			<u>Lab S</u> 08050 08050 08050	Sample ID 0489-05B 0489-09B 0489-12B		C5-Bot C5-Bot C12-Bo C18-Bo	<u>Sample I</u> ⊧-14' ot-9' ot-6'	D		
Ch	Analyte		Result ND	Rep Limit		08050 08050 08050 08050	)489-14B )489-20B )489-23B )489-29B		C14-B C15-B C16-B C19-B	ot-8' ot-8' ot-8' ot-5'			
	Leac	hate Blank											
RunID:	IC1_080512B-4433888	Units:	mg/L										
Analysis Date:	05/13/2008 0:58	Analyst:	A_E										
Leach Date:	05/09/2008 0:00	Leach By	/:GFN	Method SW	1312								
Ch	Analyte		Result ND	Rep Limit 0.50									
			<u>La</u>	boratory C	ontrol Sa	ample (L	<u>CS)</u>						
		Analy	te		Spike \dded	Result	Percent Recovery	Lower Limit	Upper Limit				
	Chloride				10.00	10.33	103.3	85	11	5			
		Matrix	Spike (N	IS) / Matrix	Spike D	uplicate	(MSD)						
	Sam Runi Anal	ple Spiked: D: ysis Date:	080504 IC1_080 05/13/2	189-05 0512B-443389 2008 1:47	91 Ui Ai	nits: nalyst:	mg/L A_E						
	Analyte	Sample Result	MS Spike Added	MS Result	MS % Recove	6 MS ery Spil Add	D MSD ke Resul	t Rec	D % overy	RPD	RPD Limit	Low Limit	High Limit
Chloride		7.175	10	17.81	1 1(	06.4	10 1	6.65	94.77	6.743	3 20	80	120
Qualifiere		l at the Ponart	ing Limit		N AL	Matrix Int	orference						
uainieis.	B/V - Analyte detected J - Estimated value t E - Estimated Value	ed in the association of the second s	ciated Met and PQL ration curv	hod Blank ve	D - F * - R	Recovery Recovery	Unreportable Dutside Advis	due to Dilu able QC L	ition mits				

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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# Conoco Phillips

COP Wyatt A

Analysis: Method:	Ion Chromatograph SW9056	y - SPLP				WorkOrder: Lab Batch ID:	08050489 R237442
	Met	hod Blank		S	amples in Analyt	ical Batch:	
RunID: IC	1_080513A-4436206	Units:	mg/L	Li	ab Sample ID	Client San	nple ID
Analysis Date	e: 05/13/2008 15:57	Analyst:	A_E	0	3050489-19B	C13-Bot-12	2'
				08	3050489-28B	C17-Bot-6'	
				30	3050489-31B	C11-Bot-9'	
	Analyte		Result Rep Lim	it 08	3050489-32B	C10-Bot-8'	
	Chloride		ND 0.5	30 30	3050489-36B	C9-Bot-8'	
	Leac	hate Blank					
RunID:	IC1_080513A-4436207	Units:	mg/L				
Analysis Date	e: 05/13/2008 16:13	Analyst:	A_E				
Leach Date:	05/09/2008 0:00	Leach By	: GF Method S	W1312			
	Analyte		Result Rep Lim	it			
	Chloride		ND 0.5	60			
			Laboratory	Control Sample	<u>ə (LCS)</u>		
	RunID	:	IC1_080513A-44362	208 Units:	mg/L		
	Analys	is Date:	05/13/2008 16:29	Analyst:	A_E		

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	10.00	10.61	106.1	85	115

### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:	08050489-28		
RunID:	IC1_080513A-4436212	Units:	mg/L
Analysis Date:	05/13/2008 17:35	Analyst:	A_E

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	45.27	40	87.22	104.9	40	97.88	131.5 *	11.52	20	80	120

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank D - Recovery Unr

J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution\* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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# Sample Receipt Checklist And Chain of Custody

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HOUSTON LABORATORY

8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

### Sample Receipt Checklist

Wo	rkorder:	08050489		Received By:	RE
Dat	e and Time Received:	5/7/08 10:00:00 AM		Carrier name:	SPL
Ten	nperature:	2.5°C		Chilled by:	Water Ice
1.	Shipping container/co	oler in good condition?	Yes 🗹	No 🗌	Not Present
2.	Custody seals intact o	n shippping container/cooler?	Yes 🔽	No 🗌	Not Present
3.	Custody seals intact o	n sample bottles?	Yes	No 🗌	Not Present
4.	Chain of custody pres	ent?	Yes 🔽	No 🗌	
5.	Chain of custody sign	ed when relinquished and received?	Yes 🔽	No 🗌	
6.	Chain of custody agre 1.Client did not mark a Received 2-sets of Tri	<b>es with sample labels?</b> analysis on page 4 of chain of custody. 2. p Blanks not listed on chain.	Yes 🗌	No 🗹	
7.	Samples in proper cor	ntainer/bottle?	Yes 🗹	No 🗌	
8.	Sample containers int	act?	Yes 🔽	No 🗌	
9.	Sufficient sample volu	me for indicated test?	Yes 🔽	No 🗌	
10.	All samples received v	vithin holding time?	Yes 🔽	No 🗌	
11.	Container/Temp Blank	temperature in compliance?	Yes 🗹	No 🗌	
12.	Water - VOA vials have	e zero headspace?	Yes		Vials Not Present
13.	Water - Preservation of	hecked upon receipt (except VOA*)?	Yes	No 🗌	Not Applicable
	*VOA Preservation Ch	ecked After Sample Analysis			
	SPL Representativ	/e: Agarwal, Bethany A.	Contact Date &	<b>&amp; Time:</b> 5/13/08 8:42:0	00 AM
	Client Name Contacte	ed: Charlie Durrett			
	Non Conformance Issues:				
1	Client Instructions: Re day	vised chain at SPL per cleint instructions vi /s.	a phone call. Do not a	nalyze the trip blanks p	er clietn request. TAT needed is 7

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Traverse City MI 49686 (231) 947-5777

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

### **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
CONOCOPHILLIPS COMPANY	217817
600 W. Illinois Avenue	Action Number:
Midland, TX 79701	17963
	Action Type:
	[C-141] Release Corrective Action (C-141)
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#### CONDITIONS

Created By	Condition	Condition Date
jnobui	None	1/26/2022

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